

January 15, 2013

Fourth Quarter 2012 Groundwater Monitoring Report

**Former Powerine Refinery
12345 Lakeland Road, Santa Fe Springs, CA**

**SLIC No. 0318, ID No. 2040071
CAO 97-118**

Prepared on Behalf of

**Isola Law Group, LLP
Lodi, California**

Prepared for

**Regional Water Quality Control Board
Los Angeles Region**

Prepared By

The logo for MUREX environmental, inc. features a stylized red bull head icon to the left of the word "MUREX" in a bold, serif font. Below "MUREX" is the word "environmental, inc" in a smaller, lowercase, sans-serif font. The entire logo is set against a white background.

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1.0 INTRODUCTION

On behalf of Isola Law Group, LLP, Murex Environmental (Murex) has prepared this *Fourth Quarter 2012 Groundwater Monitoring Report* for the former Powerine Refinery property located at 12345 Lakeland Road in Santa Fe Springs, California (Site; **Figure 1**).

1.1 Purpose

The objective of the quarterly groundwater monitoring is to evaluate groundwater quality beneath the site and adjacent properties (**Figure 2**) and to provide regular updates to the Regional Water Quality Control Board, Los Angeles Region (RWQCB). This report presents the groundwater monitoring activities performed between October 26, 2012 and November 21, 2012, in accordance with the RWQCB Cleanup and Abatement Order (CAO) No. 97-118.

1.2 Site Description and History

The Site is approximately 55 acres in size and is bordered to the north by Florence Avenue, to the south by Lakeland Road, and to the east by Bloomfield Avenue (**Figure 2**). Commercial/light industrial properties border the site to the west. The site was operated as an oil refinery from the 1930s until July 1995. Historical aerial photographs indicate that the western portion of the site may have been used for agricultural purposes from approximately 1928 to 1938. Oil production-related structures such as ponds and aboveground holding tanks may have also been located onsite during this time period (Haley & Aldrich, Inc. [Haley & Aldrich], 2005). The refinery is not currently in operation; however, some of the refinery structures remain onsite. These structures are scheduled to be removed prior to the redevelopment of the property for commercial/light industrial use.

Previous refining operations included processing crude oil into several grades of fuel including kerosene, leaded gasoline and aviation fuel, unleaded gasoline, jet fuel, high and low-sulfur diesel, fuel oil, and petroleum coke. Soil and groundwater quality beneath and in proximity to the site have been impacted by past site operations. Soil and groundwater investigations are being conducted pursuant to a CAOs (No. 97-118) issued by the RWQCB to Powerine Oil Company (CENCO Refining Company) in 1997 (Haley & Aldrich, 2005).

2.0 GROUNDWATER SAMPLING ACTIVITIES

Quarterly groundwater monitoring has been conducted since August 1986. The previous monitoring event was performed by Murex in September 2012. The following subsections summarize work completed during the fourth quarter 2012 monitoring event.

2.1 Monitoring Network

The quarterly groundwater monitoring program currently includes the existing 59 wells, as listed in **Table I** and shown on **Figure 2**. These wells include:

- Twenty-two onsite groundwater monitoring wells: MW-101, MW-103, MW-104A, MW-105, MW-201, MW-202, MW-204, MW-205, MW-504, MW-701, MW-702, MW-703, MW-704, MW-705, MW-706, W-9, W-10, W-11, W-12, W-17A, W-17B, and W-17C;
- Twenty-five downgradient offsite groundwater monitoring wells of which:
 - Four are located on the former Lakeland (aka "Coaster") property: MW-501A, MW-502, MW-503B, and MW-707; and
 - Twenty-one are located on the Metropolitan State Hospital (MSH) property: MW-600A, MW-601A, MW-603, MW-604, MW-605, MW-606, MW-607, MW-708, MW-709, MW-710, MW-711, MW-712, MW-713, MW-714, MW-715, W-14A, W-14B, W-14C, W-15A, W-15B, and W-15C;
- Seven offsite groundwater monitoring wells located to the southeast on the Walker property including: EW-1, W-1, W-3A, W-4, W-16A, W-16B, and W-16C;
- Three offsite groundwater monitoring wells located to the east on the Bloomfield property that include: MW-106A, MW-107A, and MW-203; and
- Two onsite, deep, former water production wells identified as W-7 and W-8.

2.2 Groundwater Gauging

Murex inspected and measured the depth to groundwater in all 59 of the wells on October 26, 2012. During gauging, wells are also checked for the presence and thickness of free-phase petroleum hydrocarbons (FPPH) product. Of those, 19 wells were dry, and 3 contained free-phase petroleum hydrocarbon (FPPH).

Table II summarizes the groundwater elevation and free product thickness measurements.

2.3 Free-Phase Petroleum Hydrocarbon (FPPH) Measurements

Wells that initially exhibit the presence of FPPH are purged until they become dry or until approximately 6 to 10 well volumes are evacuated. Thereafter, the wells are inspected for the return of FPPH and if present, its thickness is measured over longer and longer time intervals (in general 1 hour, 2 hours, 4 hours, 24 hours, 3 days, 7 days, and 10 days).

For wells in which FPPH does not return within the first day, groundwater is sampled for analysis.

Further discussion of the wells exhibiting free product is presented in Section 3.2.

2.4 Groundwater Purging

The groundwater monitoring wells that contained groundwater, with the exception of production wells W-7 and W-8, were purged via a dedicated vacuum stinger that was connected to a truck-mounted vacuum pump truck operated by Nieto & Sons. W-7 and W-8 are deep production wells and are sampled without purging water from them first. During purging, extracted groundwater volume and quality were recorded. The parameters measured during purging were temperature, pH, electrical conductivity, dissolved oxygen (DO), oxidation-reduction potential (ORP), color, and odor. The results of the field parameter testing are summarized in **Table IV**. Purged groundwater was disposed of by Nieto & Sons at the wastewater treatment system in operation at the Site.

2.5 Groundwater Sampling and Analysis

Following purging, groundwater samples were collected by disposable bailer from the wells and placed in sample containers and stored in pre-cooled ice chests and transported under proper chain-of-custody (COC) procedures to Sunstar Laboratories, Inc. (Sunstar Labs) of Lake Forest, California, California Department of Public Health Environmental Laboratory Accreditation Program (ELAP) #2250. All collected samples were analyzed for the following:

- Total petroleum hydrocarbons as gasoline (TPHg) by U.S. Environmental Protection Agency (USEPA) Method 8015M, and
- Volatile organic compounds (VOCs) with oxygenates by USEPA Method 8260B.

Results of these analyses are summarized in **Table III**. Results of the field-measured parameters are shown in **Table IV**.

2.6 Quality Assurance/Quality Control

In accordance with the Quality Assurance/Quality Control (QA/QC) plan, Murex collected and submitted field duplicate samples and trip blanks for laboratory analysis as a quality assurance/quality control measure.

2.6.1 Trip Blanks

Trip blanks (provided by SunStar Lab) accompanied each daily groundwater sample shipment to evaluate the potential contamination of field samples during storage and transport. Trip blanks were analyzed for VOCs only.

2.6.2 Duplicates

Duplicate samples, which assess the precision of the laboratory analyses, were collected from wells MW-704, MW-705, and MW-706. This represents a duplicate frequency equal to approximately 13% relative to the total number of wells sampled. The duplicates followed the same analytical protocols as their respective primary samples. The results of the duplicate analyses are shown in the results tables beside the original sample result.

2.6.3 Equipment Blanks

Equipment blanks were not collected because dedicated stingers were used to purge the wells and new disposable bailers were used for sampling, therefore eliminating cross-contamination between wells during the purging and sampling process.

2.6.4 Laboratory QA/QC Program

Laboratory QA/QC reports were reviewed to confirm proper completion of data validation tests, including batch QC results, method blanks, laboratory control samples, matrix spikes, and duplicates. The results of lab QC tests were within acceptable limits.

3.0 RESULTS & DISCUSSION

This section presents the results of the fourth quarter 2012 groundwater monitoring event. As mentioned earlier in the report, well completion details are provided in **Table I**. Groundwater level measurements and groundwater elevations are summarized in **Table II**. Comprehensive analytical results, including historical and recent results, are compiled in **Tables III**. **Table IV** contains a summary of bio-attenuation and field-measured parameter readings.

Figure 3 shows the groundwater elevation measured at each monitoring well, as well as the overall gradient and direction of groundwater flow on-Site. **Figure 4** depicts the same information for the entire monitoring well network. **Figure 5** shows the concentrations and estimated contour lines of TPHg measured in each well, and **Figure 7** shows similar concentrations and contour lines for benzene and MTBE.

Well measurement and groundwater sampling forms are attached as **Appendix A**. Laboratory reports and completed COCs are included in **Appendix B**.

The presentation of the chemical testing results in this report does not distinguish between constituents in groundwater that likely originated from the Site and those that are resultant from other sources located off-Site. Chemicals in groundwater related to off-Site sources are further discussed in Section 4.3.

3.1 Groundwater Surface Elevations and Gradient

Groundwater surface elevations were calculated for each well by subtracting the water level measurement from the top of casing elevation (**Tables I and II**). Groundwater elevations were adjusted for wells containing FPPH, assumed to have a relative density of 0.80, which is typical for mean density of various petroleum hydrocarbon mixtures. Groundwater elevations, contour lines, flow direction and gradient are shown on **Figure 4**.

Based on groundwater level measurements obtained on October 26, 2012, first-encountered groundwater beneath the site vicinity ranges in elevation from 16.19 to 51.24 feet above mean sea level (ft-amsl). Wells W-7 and W-8 are former production wells, with screens situated deeper than 500 feet bgs. Their elevations were higher, between 47.62 and 62.39.

In general, groundwater elevations were lower to those measured in the third quarter 2012 monitoring event. For the A horizon, groundwater elevations had exhibited steady

decreases for several years until the third quarter 2010, when they experienced a significant increase. The increase continued in the fourth quarter 2011 and has apparently leveled off. The groundwater elevations in the B and C horizons appear to indicate similar patterns to the A horizon, though one to two monitoring events prior to the A horizon. As a whole, the average change in groundwater elevation over all the wells measured was a decrease of approximately 1.15 feet from the third quarter 2012 sampling event. **Appendix C** includes hydrographs depicting the change in groundwater elevation over time in the A, B, and C screened horizons, respectively.

The average horizontal groundwater gradient is approximately 0.008 foot per foot (ft/ft), as shown in **Figure 4**, which was similar to the previous monitoring period, and represents what is considered a moderately steep gradient. The groundwater flow direction originates from the northeast and turns south across the area of study. This flow direction is relatively consistent with those historically reported in previous investigations.

3.2 Free-Phase Petroleum Hydrocarbons

Measurable FPPH, also known as light non-aqueous-phase liquid or LNAPL, was detected in monitoring wells EW-1, W-15A, and MW-708 (**Table II**). Well W-15A continues to exhibit FPPH, which was first measured in 2011. FPPH was measured at a thickness of 2.47 feet in W-15A, 0.88 feet in EW-1, 0.19 feet in MW-708. During previous monitoring events going back many years, FPPH was also historically detected in wells MW-101, MW-103, MW-104, MW-201, MW-202, MW-203, MW-204, MW-205, MW-206, MW-501, MW-502, MW-503, MW-503B, MW-504, MW-600, MW-600A, MW-601, MW-601A, W-3A. The majority of these wells are now dry.

3.3 Groundwater Analysis

Groundwater analytical results are summarized in **Tables III**, and laboratory reports and completed COCs are included in **Appendix B**.

3.3.1 TPHg

Fourth quarter 2012 TPHg results are presented in **Table III** and **Figure 5**. TPHg was detected in 38 out of the 40 wells sampled at concentrations ranging from 0.052 milligrams per liter (mg/L) in monitoring well W-14B to 35 mg/L in monitoring well MW-711.

The most significant decreases in TPHg were observed in wells W-15A, MW-708, MW-712, and MW-713. For the second consecutive event, well W-15A exhibited the largest decrease among all the wells from 23 mg/L to 4.5 mg/L.

The most significant increase was observed in monitoring well MW-711, where TPHg concentrations rose from 28 mg/L in the third quarter 2012 to 35 mg/L in the fourth quarter 2012. TPHg was detected in the sample collected from well W-14A at a concentration of 3.8 mg/L in the fourth quarter 2012, compared to 1.6 mg/L in the third quarter 2012. This well has been non-detect (<50 µg/L) historically, but has exhibited increasingly elevated TPHg concentrations for the past four monitoring events.

3.3.2 VOCs and Oxygenates

A summary of VOC and oxygenate analytical data for the fourth quarter 2012 is presented in **Table III**, along with historical data from previous monitoring events.

3.3.2.1 *Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX)*

Benzene was detected in 30 samples from the 40 total wells sampled. Concentrations ranged from 0.50 µg/L in well W-8 to 6,200 µg/L in well MW-711 (**Figure 6**) (25 of these wells contained benzene at concentrations exceeding the 1 µg/L California Maximum Contaminant Level (MCL) in drinking water). Benzene concentrations in the fourth quarter of 2012 were similar to concentrations observed during previous monitoring events.

Of the other BTEX compounds analyzed for, toluene was detected in samples from 15 wells at concentrations ranging from 0.56 µg/L in MW-705 to 7,000 µg/L in MW-711. Toluene was detected above its California MCL (150 µg/L) in 2 wells this quarter.

Ethylbenzene was detected in the samples collected from 19 wells at concentrations ranging from 0.64 µg/L in W-7 to 1,400 µg/L in MW-711. Ethylbenzene was detected at or above its California MCL (300 µg/L) in 2 wells this quarter.

Total xylenes, including the *ortho*, *meta*, and *para* isomers, were detected in samples from 18 wells at concentrations ranging from 0.57 µg/L in W-7 to 6,800 µg/L in MW-711. Xylene was detected above the California MCL (1,750 µg/L) in two wells this quarter.

3.3.2.2 *Methyl tert-Butyl Ether (MTBE)*

The oxygenate MTBE was detected in samples from 15 wells at concentrations ranging from 1.3 µg/L in MW-503B to 610 µg/L in MW-704 (**Figure 7**). The 13 µg/L drinking water MCL established for MTBE in California was exceeded in four wells.

3.3.2.3 *tert-Butyl Alcohol (TBA)*

TBA, another oxygenate and a byproduct of MTBE breakdown, was detected in 15 of the 40 sampled wells at concentrations ranging from 11 µg/L in well W-17C to 120 µg/L in well

MW-15A. The California Notification Level (formerly Action Level) and Response Level for Drinking Water for TBA is 12 µg/L. A total of 14 out of the 15 TBA detections exceeded this limit for this quarter.

3.3.2.4 Other VOCs

In addition to the aforementioned constituents of concern, several VOCs were detected in groundwater during this monitoring event. Some of these compounds, such as naphthalene, n-propylbenzene, and trimethylbenzene, for instance, are related to petroleum hydrocarbon releases.

Conversely, also detected were chlorinated solvents, such as tetrachloroethylene (PCE), trichloroethene (TCE), 1,1-dichloroethane (1,1-DCA), 1,1-dichloroethene (1,1-DCE), 1,2-dichloroethane (1,2-DCA), and cis- and trans-1,2-dichloroethene (cis-1,2-DCE and trans-1,2-DCE), among others, which we believe are the result of off-site contamination entering the Powerline well network. Chlorinated solvents were detected in the following wells this quarter: MW-104A, MW-106A, MW-701, MW-703, MW-704, MW-705, MW-710, MW-711, W-10, W-11, W-14A, W-14B, W-14C, W-16B, W-16C, and W-17A.

The most significant detections of chlorinated compounds are described as follows: to the southwest, in wells MW-710 and W-14B, PCE and TCE were detected between 4.3 and 130 µg/L.

The U.S. EPA and the RWQCB are aware of the chlorinated solvents in groundwater through their oversight of the cleanup of a Superfund site located to the north, and upgradient of the Site. Murex provides this data to the U.S. EPA on a periodic basis.

3.3.3 Biodegradation Parameters

Biodegradation of TPHg most commonly occurs by aerobic, nitrate-reducing, ferric iron (Fe^{3+})-reducing, sulfate-reducing, or methanogenic respiration. TPHg and BTEX serve as electron donors for microbial metabolism in aerobic biodegradation. Electron acceptors include oxygen, nitrate, Fe^{3+} , sulfate, and carbon dioxide.

In general, if sufficient oxygen is present, aerobic biodegradation will occur first. When DO concentrations fall below approximately 0.5 mg/L (an anoxic environment), denitrification will begin if nitrate is present. After most nitrate has been consumed, Fe^{3+} reduction will begin if Fe^{3+} is present. Fe^{3+} concentrations will decrease, while Fe^{2+} concentrations will increase. After most Fe^{3+} is consumed, sulfate reduction will begin if sulfate is available. After most sulfate has been consumed, methanogenesis, which involves carbon dioxide as

an electron acceptor, begins. During methanogenesis, methane concentrations increase (Department of the Navy, 1998).

The results discussed below indicate that biodegradation, whether aerobic or anaerobic, may be occurring in the local environment around the wells that were sampled for biodegradation parameters.

3.3.3.1 Field Measured Parameters

Field pH, DO, and oxidation-reduction potential (ORP) data were collected from 29 monitoring wells using an YSI 556 water quality meter (**Table IV**). The meter was inserted into grab water samples, collected from the vacuum truck intake during well purging. Wells MW-104A, MW-106A, W-9, and W-10 did not generate enough groundwater volume during purging sufficient enough to collect water quality parameters during sampling. On the day that wells MW-703, MW-704, and MW-705 were purged and sampled, the monitoring device (YSI 556) experienced technical problems and could not be used.

- **pH** – This parameter quantifies the acidity or alkalinity of a solution. Results ranged from 7.64 to 8.62 with a few exceptions, indicating a neutral to slightly alkaline environment that is suitable for the growth of alkalophilic bacteria and microorganisms that thrive at a circumneutral pH.
- **DO** – Oxygen is the preferred electron acceptor in the biodegradation of petroleum hydrocarbons. When aerobic biodegradation occurs, DO concentrations are expected to decline as microorganisms use the electron acceptor during respiration. The vacuum stinger method used to purge the wells introduces oxygen into the groundwater. Therefore, DO data is not representative of the actual oxygen content. It is likely very low in wells exhibiting higher TPH concentrations, since oxygen is the first compound used up in the biological degradation of petroleum.
- **ORP** – This parameter is a measure of electron activity, which reflects the oxidizing or reducing nature of the environment. ORP values are generally negative under reducing conditions (gaining electrons) and positive under oxidizing conditions (losing electrons). Negative ORP values were observed in 19 of the 29 wells measured.

ORP values ranged from -236.7 mV in well MW-107A to 161.0 mV in Well MW-701. **Figure 8** illustrates iso-concentration contour lines for ORP.

Hydrogen sulfide (produced from the reduction of sulfate in groundwater, after oxygen is used up) was detected during purging of wells exhibiting elevated TPH concentrations and low or negative ORP values, which is consistent with our understanding of the conceptual site model, and indicate that aerobic degradation of the hydrocarbons has stalled due to dissolved oxygen limitations. It is likely that the introduction of air (via bioventing for example) will enhance the process of stimulating the aerobic degradation of the constituents of concern at the site.

3.3.4 QA/QC

Duplicate sample results are provided alongside their primary sample results in **Tables III**. The results show similar concentrations of the analytes of interest as in their respective primary samples, as would be expected for an ELAP-certified laboratory.

Trip blank samples did not indicate the presence of VOCs, which indicates proper sample storage and confirms a lack of cross-contamination during transport.

Laboratory method blanks did not indicate the presence of VOCs, which indicates that laboratory detection equipment did not exhibit cross-contamination.

Laboratory control and laboratory spike samples exhibited results within acceptable limits, indicating no matrix interference and that the detection equipment was working properly.

4.0 SUMMARY & CONCLUSIONS

Groundwater monitoring was performed at and in the vicinity of the former CENCO refinery in November 2012 as part of an ongoing groundwater monitoring plan intended to evaluate chemical impacts, contaminant sources, and overall groundwater quality. This groundwater monitoring event included inspecting/gauging water levels in 59 wells and collecting samples from 40 of those wells for analysis of TPHg and VOCs.

4.1 Groundwater Surface Elevations and Gradient

A horizontal groundwater gradient of approximately 0.008 ft/ft was calculated for the fourth quarter groundwater monitoring event. This is consistent with historical gradient data for the site vicinity. Averaging all the wells exhibiting measurable groundwater, elevations have decreased (although it rose in select individual wells) by approximately 1.22 feet since the previous quarter. Groundwater flows from the northeast and turns due south across the area of study, which is consistent with historical measurements. Deep-screened production wells W-7 and W-8 exhibited decreases of nearly 5 vertical feet in groundwater elevation this quarter; this is likely due to the cessation of municipal water pumping operations in near proximity of the site.

4.2 Free-Phase Petroleum Hydrocarbons

Measureable free product was identified in three wells EW-1, W-15A, and MW-708. These wells have exhibited FPPH in the past; although it first appeared in W-15A in 2011. The FPPH thickness measured in these wells (0.88, 2.47, and 0.19 feet, respectively) does not necessarily reflect FPPH actual thickness in the surrounding aquifer as fluctuations in water levels and permeability factors can influence FPPH accumulation in monitoring wells.

Murex has conducted a study to compare the characteristics (i.e., “fingerprints”) of FPPH samples taken from several of the monitoring wells, including wells that do not currently contain FPPH. Samples of FPPH were collected from wells W-11, MW-503B, MW-708, EW-1, and W-15A. All the samples were then submitted for fingerprinting analysis to Zymax Forensics Laboratory in Escondido, California on September 21, 2011. The findings of this study were submitted to the RWQCB on January 25, 2012 as an addendum to the June 30, 2011 FPPH Investigation Report.

4.3 Groundwater Quality

The highest concentrations of TPHg detected during this sampling event were beneath the Coaster property and the northern and southern portions of the MSH (see **Figure 5**). The maximum concentration of TPHg was 35 mg/L in well MW-711, 14 mg/L in well MW-704,

5.1 mg/L in well W-10 and 4.5 mg/L in well W-15A. Wells MW-711 and W-15A are located south of the Coaster property.

Benzene, toluene, ethylbenzene, xylene, and other compounds associated with petroleum hydrocarbons largely mimic TPHg in their presence and relative concentrations in the areas associated with the plume. The maximum concentration of benzene was detected in well MW-711, at 6,200 µg/L, located south of the Coaster property (see **Figure 6**). The maximum concentration of MTBE was detected in well MW-704 at 610 µg/L, located in the central portion of the MSH (**Figure 7**) at a distance of approximately 2,000 feet. It is likely that the impacts present in well W-15A are resultant from releases other than those sourced from the refinery property.

Changes in the petroleum hydrocarbon plume may be reflective of the recent increases in groundwater elevation which have exhibited their fifth increase after a long period of steep decline. Murex will continue to monitor the hydrocarbon plume within the well network and provided regular updates to the RWQCB through the monitoring and reporting program.

4.3.1 Off-Site Sources of Petroleum Hydrocarbons

In addition to historic releases from the Site, data collected from the monitoring well network (see **Figures 4, 5, and 6**) exhibits evidence of other sources. Some observations that would support the presence of alternative sources are: (1) the comparatively clean appearance of FPPH in well W-15A versus the weathered or cloudy appearance of FPPH in wells EW-1, MW-503B, and MW-708; (2) the historical presence of FPPH in wells EW-1 and W-3A, which are located east and cross-gradient of the former refinery.

In connection with the study of the FPPH samples submitted for fingerprinting analysis, Murex is also reviewing literature and maps to identify other possible sources of petroleum hydrocarbons in the vicinity of the Site as well as to distinguish Site-related contamination from contamination originating elsewhere.

4.3.2 Discussion of Solvent Detections

Data collected from the monitoring well network (see **Table III**) exhibits the presence of substances not linked to historic releases at the Site, including chlorinated solvents. The following observations were made regarding the additional detected chemicals in groundwater within the Powerine monitoring well network.

During this sampling event, elevated PCE and TCE concentrations (i.e., between 81 and 130 µg/L) were measured in wells W-14B and MW-710. This is consistent with previously measured high values from MW-710. Levels of PCE and TCE found in W-14B increased for the past several monitoring periods since January 2011. Historically, these compounds were also detected in wells MW-107A, MW-701, and MW-14C.

Cis-1,2-DCE and trans-1,2-DCE were found in 13 of the wells sampled at concentrations consistent with historical levels. Well W-16B exhibited a decreased concentration of cis-1,2-DCE (4.2 µg/L) and an increased concentration of trans-1,2-DCE (6.6 µg/L) in the fourth quarter.

1,1-DCE was detected at an elevated concentration of 86 µg/L in well MW-710 and 31 µg/L in well W-14B. Historically, wells W-14B and W-14C also exhibited elevated concentrations of these constituents.

The U.S. EPA and the RWQCB are aware of the chlorinated solvents in groundwater through their oversight of the cleanup of a Superfund site located to the north, and upgradient of the Site. Murex provides this data to the U.S. EPA on a periodic basis.

4.3.3 Assessment of Vapor Risk from Groundwater Plume

At the direction of the DTSC, Murex has conducted an off-site soil gas sampling study. The results, presented to the RWQCB and DTSC in the November 7, 2011 *Off-Site Soil Gas Survey Report*, indicate that the petroleum hydrocarbon plume does not pose a threat to off-site receptors as a result of volatilization from groundwater.

4.4 Biodegradation

Intrinsic biodegradation continues to be viable, in at least some areas of the site and vicinity, based on nitrate, sulfate, Fe^{2+} , methane, alkalinity, and ORP results from previous sampling events conducted at the site. Oxygen has been depleted, as evident by the presence of hydrogen sulfide in the deep subsurface (sulfate reduction reactions result in the formation of hydrogen sulfide). Since the main limiting factor for biodegradation of petroleum hydrocarbons is oxygen, the mechanical introduction of oxygen could stimulate aerobic biodegradation of the VOCs present in groundwater.

Murex conducted pilot testing at the site to determine the appropriate remedial technology which will effectively enhance biodegradation of the constituents of concern and reduce the extent of groundwater contamination. Based on the results and data collected during pilot testing, it appears that a combination of remedial technologies would

be suited for the site. The results and conclusions of this study were submitted to the RWQCB in the Pilot Testing Report dated November 21, 2011.

5.0 REFERENCES

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6.0 CLOSING

I certify under penalty of law that this document and all enclosures were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. The information contained herein is, to the best of my knowledge and belief, true, accurate and complete, however, is reliant upon public agency records, which could be incomplete or inaccurate beyond our control.

Should you have any questions or concerns regarding the material herein, please do not hesitate to contact the undersigned at (714) 508-0800.

Sincerely,
MUREX ENVIRONMENTAL, INC.



Jeremy R Squire, P.E.
Senior Engineer



Table I
Well Construction Details
Former CENCO Refinery
Santa Fe Springs, CA

Well Installation					Completion Data															Location	Reference(s) ¹	
Well ID	Date	By	Elevation		Hole Diameter (in)	Casing Diameter (in)	Screen		Depth (ft)						Elevation (ft)							
			Ground Surface	Top of Casing			Slot	Length	Sand Pack		Slotted		Total Depth		Sand Pack		Slotted		Total Depth			
									(ft)	(ft amsl)	(in)	(ft)	Top	Bottom	Top	Bottom	Casing	Hole	Top			Bottom
Groundwater Monitoring Wells																						
EW-1	6/11/1905	Emcon	146.85	146.85	-	4	-	-	-	-	-	-	113.5	-	-	-	-	-	-	-	Walker	Versar (2000)
MW-101	8/28/1985	IT	145.19	138.00	12	4	-	20	69.5	90	70	90	90	95	66	45	65	45	45	40	Refinery	IT (1986); Versar (2000); ARCADIS (2003)
MW-103	8/30/1985	IT	137.18	139.36	12	4	-	20	-	-	79	99	99	99.5	-	-	58	38	-	37	Refinery	IT (1986); Versar (2000); ARCADIS (2003)
MW-104	8/24/1985	IT	-	-	12	4	-	20	-	-	76.5	96.5	97	99	-	-	66	46	-	43	Refinery	IT (1986); Versar (2000); ARCADIS (2003)
MW-104A	6/1999	Versar	142.38	144.13	-	4	-	-	-	-	65	100	100	-	-	-	-	-	-	-	Refinery	Versar (2000); measured well depth
MW-105	12/1995	TriHydro		141.16	-	4	-	-	-	-	68	98	98	100	-	-	-	-	-	39	Refinery	Versar (2000); measured well depth
MW-106	12/1995	TriHydro	-	-	-	4	-	-	-	-	74	104	106.45	106	-	-	-	-	42	42	Bloomfield	Versar (2000)
MW-106A	2/20/2006	N&M	152.92	152.81	8	4	0.02	27	82	110	83	110	110	110	70	42	69	42	42	42	Bloomfield	Well completion report
MW-107	12/1995	TriHydro	-	-	-	4	-	-	-	-	75	105	107.55	108	-	-	-	-	41	41	Bloomfield	Versar (2000)
MW-107A	2/20/2006	N&M	147.37	147.02	8	4	0.02	27	82	110	83	110	110	110	64	36	63	36	36	36	Bloomfield	Well completion report
MW-201	9/10/1985	IT	134.86	135.65	12	4	-	30	66	103	72	102	102	103	67	30	61	31	31	30	Refinery	IT (1986); Versar (2000); ARCADIS (2003)
MW-202	9/23/1985	IT	139.00*	140.62	16	4	-	30	58	105	63	93	93	105	70	23	65	35	35	23	Refinery	IT (1986); Versar (2000); ARCADIS (2003)
MW-203	9/13/1985	IT	144.08	143.71	12	4	-	30	64.7	107	77	107	107	119	78	36	66	36	36	24	Bloomfield	IT (1986); Versar (2000); ARCADIS (2003)
MW-204	9/19/1985	IT	141.15	142.90	12	4	-	30	67.5	105	73.3	103.3	103.3	105	73	35	67	37	37	35	Refinery	IT (1986); Versar (2000); ARCADIS (2003)
MW-205	9/14/1985	IT	140.00*	140.09	12	4	-	30	65.5	103	69.5	99.5	99.5	104.5	73	35	69	39	39	34	Refinery	IT (1986); Versar (2000); ARCADIS (2003)
MW-206 ²	9/18/1985	IT	-	-	-	4	-	30	62.5	104	71	101	101	104	67	26	59	29	29	26	Lakeland	IT (1986); Versar (2000); ARCADIS (2003)
MW-501	6/9/1986	IT	-	-	-	4	-	30	-	-	71	101	101	107	-	-	58	28	-	22	Lakeland	IT (1986); Versar (2000); ARCADIS (2003)
MW-501A	3/1999	ATC	131.26	130.89	-	4	-	-	-	-	75	95	95	95	-	-	-	-	-	35	Lakeland	Versar (2000); measured well depth
MW-502	6/11/1986	IT	131.88	131.00	-	4	-	30	-	-	74	104	104	104	-	-	54	24	-	24	Lakeland	IT (1986); Versar (2000); ARCADIS (2003)
MW-503	6/13/1986	IT	-	-	-	4	-	30	-	-	80.5	110.5	110.5	111	-	-	51	21	-	20	Lakeland	IT (1986); Versar (2000); ARCADIS (2003)
MW-503B	1/1999	Versar	133.03	132.66	-	4	-	-	-	-	69	109	109	109	-	-	-	-	-	21	Lakeland	Versar (2000); measured well depth
MW-504	6/18/1986	IT	-	137.18	-	4	-	50	-	-	58	118	95.76	118	-	-	77	17	-	17	Refinery	IT (1986); Versar (2000); ARCADIS (2003)
MW-600	8/15/1990	ENSR	-	-	-	4	-	30	-	-	78	108	108	110	-	-	42	12	-	10	MSH	IT (1986); Versar (2000); ARCADIS (2003)
MW-600A	6/1999	Versar	123.28	124.26	-	4	-	-	-	-	-	-	92.7	100	-	-	-	-	-	20	MSH	Versar (2000); measured well depth
MW-601	8/17/1990	ENSR	-	-	-	4	-	30	-	-	85	115	115	117	-	-	40	10	-	8	MSH	IT (1986); Versar (2000); ARCADIS (2003)
MW-601A	6/1999	Versar			-	4	-	-	-	-	65	100	100	100	-	-	-	-	-	27	MSH	Versar (2000); measured well depth
MW-603	12/1995	TriHydro	121.40	120.95	-	4	-	-	-	-	70	100	100	100	-	-	-	-	-	19	MSH	Versar (2000); measured well depth
MW-604	12/1995	TriHydro	140.52	140.07	-	4	-	-	-	-	73	103	103	103	-	-	-	-	-	35	MSH	Versar (2000); measured well depth
MW-605	12/1995	TriHydro	117.40	116.82	-	4	-	-	-	-	65	95	95	95	-	-	-	-	-	20	MSH	Versar (2000); measured well depth
MW-606	12/1995	TriHydro	116.90	116.06	-	4	-	-	-	-	70	100	100	100	-	-	-	-	-	14	MSH	Versar (2000); measured well depth
MW-607	12/1995	TriHydro	128.92	128.28	-	4	-	-	-	-	77	107	107	107	-	-	-	-	-	19	MSH	Versar (2000); measured well depth
W-1	12/1995	TRC	145.19	144.81	-	4	-	-	-	-	70	129	129	130	-	-	-	-	-	13	Walker	IT (1986); Versar (2000)
W-2 ²	12/1995	TRC	-	-	-	4	-	-	-	-	84	129	129	129	-	-	-	-	-	-	Walker	IT (1986); Versar (2000)
W-3 ²	12/1995	TRC	-	-	-	4	-	-	-	-	82	122	122	124	-	-	-	-	-	-	Walker	IT (1986); Versar (2000)
W-3A	-	-	137.18	136.79	-	4	-	-	-	-	-	-	111.52	115	-	-	-	-	-	21	Walker	Versar (2000)
W-4	12/1995	TRC	143.18	142.56	-	4	-	-	-	-	79	129	130	-	-	-	-	-	-	-	Walker	IT (1986); Versar (2000)
W-9	8/22/2006	TA	140.37	139.84	8	2	0.01	35	73	111	75	110	110	120.5	66	28	64	29	29	19	Refinery	ARCADIS BBL (2006)
W-10	8/21/2006	TA	141.39	140.71	8	2	0.01	35	73	111	75	110	110	130	67	29	65	30	30	10	Refinery	ARCADIS BBL (2006)
W-11	8/25/2006	TA	141.96	142.10	8	2	0.01	35	73	111	75	110	110	119	68	30	66	31	31	22	Refinery	ARCADIS BBL (2006)
W-12	8/23/2006	TA	142.93	145.15	8	2	0.01	35	75	114	75	114	114	120.5	69	30	69	30	30	24	Refinery	ARCADIS BBL (2006)

Table I
Well Construction Details
Former CENCO Refinery
Santa Fe Springs, CA

Well Installation					Completion Data															Location	Reference(s) ¹			
Well ID	Date	By	Elevation		Hole Diameter (in)	Casing Diameter (in)	Screen		Depth (ft)						Elevation (ft)									
			Ground Surface	Top of Casing			Slot	Length	Sand Pack		Slotted		Total Depth		Sand Pack		Slotted		Total Depth					
			(ft)	(ft amsl)			(in)	(ft)	Top	Bottom	Top	Bottom	Casing	Hole	Top	Bottom	Top	Bottom	Casing			Hole		
W-14A	1/22/2008-1/30/2008	Arcadis	115.23	114.71	9	2	0.02	45	67	112	67	112	112	200	48	3	48	3	3	-85	MSH	ARCADIS (2008)		
W-14B			115.00*	114.78	9	2	0.02	10	157	167	157	167	167	200	-42	-52	-42	-52	-52	-85				
W-14C			115.00*	114.78	9	2	0.02	10	185	195	185	195	195	200	-70	-80	-70	-80	-80	-85				
W-15A	11/27/2007-12/10/2007	Arcadis	127.91	127.59	10	2	0.02	45	78	126	80	125	125	200	50	2	48	3	3	-72	MSH	ARCADIS (2008)		
W-15B			128.00*	127.61	10	2	0.02	10	143	156	145	155	155	200	-15	-28	-17	-27	-27	-72				
W-15C			128.00*	127.59	10	2	0.02	10	188	200	190	200	200	200	-60	-72	-62	-72	-72	-72				
W-16A	10/24/2007-10/30/2007	Arcadis	147.89	147.60	10	2	0.02	45	76	125	78	123	123	200	72	23	70	25	25	-52	Walker	ARCADIS (2008)		
W-16B			148.00*	147.68	10	2	0.02	10	143	156	152	162	162	200	5	-8	-4	-14	-14	-52				
W-16C			148.00*	147.67	10	2	0.02	10	184	200	186	196	196	200	-36	-52	-38	-48	-48	-52				
W-17A	1/31/2008-2/8/2008	Arcadis	141.60	141.38	9	2	0.02	45	63	108	63	108	108	200	78	33	78	33	33	-59	Refinery	ARCADIS (2008)		
W-17B			142.00*	141.37	9	2	0.02	10	159	169	159	169	169	200	-18	-28	-18	-28	-28	-59				
W-17C			142.00*	141.38	9	2	0.02	10	190	200	190	200	200	200	-49	-59	-49	-59	-59	-59				
MW-701	12/6/2010	Murex	136.87	139.48	12	4	0.02	50	77	130	80	130	130	130	59.87	6.87	56.87	6.87	6.87	6.87	Refinery	Murex (2011)		
MW-702	12/15/2010	Murex	140.90	140.12	12	4	0.02	50	77	130	80	130	130	130	63.90	10.90	60.90	10.90	10.90	10.90	Refinery	Murex (2011)		
MW-703	12/10/2010	Murex	134.73	137.23	12	4	0.02	50	77	130	80	130	130	130	57.73	4.73	54.73	4.73	4.73	4.73	Refinery	Murex (2011)		
MW-704	12/14/2010	Murex	137.93	137.66	12	4	0.02	50	77	130	80	130	130	130	60.93	7.93	57.93	7.93	7.93	7.93	Refinery	Murex (2011)		
MW-705	12/13/2010	Murex	139.16	141.94	12	4	0.02	50	77	130	80	130	130	130	62.16	9.16	59.16	9.16	9.16	9.16	Refinery	Murex (2011)		
MW-706	12/9/2010	Murex	139.68	139.30	12	4	0.02	50	77	130	80	130	130	130	62.68	9.68	59.68	9.68	9.68	9.68	Refinery	Murex (2011)		
MW-707	12/23/2010	Murex	128.86	128.43	12	4	0.02	50	77	130	80	130	130	130	51.86	-1.14	48.86	-1.14	-1.14	-1.14	Getty Drive	Murex (2011)		
MW-708	1/12/2011	Murex	126.73	126.26	12	4	0.02	50	77	130	80	130	130	130	49.73	-3.27	46.73	-3.27	-3.27	-3.27	MSH	Murex (2011)		
MW-709	1/26/2011	Murex	140.48	139.78	12	4	0.02	50	77	130	80	130	130	130	63.48	10.48	60.48	10.48	10.48	10.48	MSH	Murex (2011)		
MW-710	1/13/2011	Murex	122.15	121.99	12	4	0.02	50	77	130	80	130	130	130	45.15	-7.85	42.15	-7.85	-7.85	-7.85	MSH	Murex (2011)		
MW-711	1/17/2011	Murex	128.09	127.84	12	4	0.02	50	77	130	80	130	130	130	51.09	-1.91	48.09	-1.91	-1.91	-1.91	MSH	Murex (2011)		
MW-712	1/24/2011	Murex	123.57	123.31	12	4	0.02	50	77	130	80	130	130	130	46.57	-6.43	43.57	-6.43	-6.43	-6.43	MSH	Murex (2011)		
MW-713	1/19/2011	Murex	128.42	128.15	12	4	0.02	50	77	130	80	130	130	130	51.42	-1.58	48.42	-1.58	-1.58	-1.58	MSH	Murex (2011)		
MW-714	1/20/2011	Murex	129.07	128.87	12	4	0.02	50	77	130	80	130	143	130	52.07	-0.93	49.07	-0.93	-13.93	-0.93	MSH	Murex (2011)		
MW-715	1/27/2011	Murex	116.66	116.22	12	4	0.02	50	77	130	80	130	130	130	39.66	-13.34	36.66	-13.34	-13.34	-13.34	MSH	Murex (2011)		
Former Groundwater Production Wells																								
					-	-	-	80	-	-	450	530	690	-	-	-	-	-	-	-	Refinery	IT (1986)		
W-7	-		-	141.97	-	-	-	90	-	-	600	690	-	-	-	-	-	-	-	-	Refinery			
W-8	-		-	141.11	-	-	-	-	-	-	-	-	994	-	-	-	-	-	-	-	Refinery			

NOTES:

¹Sources: IT, 1986; Versar, 2000; Arcadis, 2003, 2006, 2008, and 2009; Dan Herlihy Environmental Services, 2006 (as shown).

²Well abandoned

- ft Feet
- in Inches
- MSH Metropolitan State Hospital Property
- amsl Above mean sea level
- TOC Top of casing
- * Value retrieved from Google Earth

Table II
Summary of Groundwater Level Measurements
Former CENCO Refinery
Santa Fe Springs, CA
4Q2012

Well ID	Date	Total Depth (ft)	Depth to Groundwater (ft)	Depth To FPPH (ft)	FPPH Thickness (ft)	Top of Casing Elevation (ft amsl)	Groundwater Elevation (ft amsl)
EW-1	10/26/2012	113.00	106.40	105.52	0.88	146.85	41.15
W-1	10/26/2012	129.61	108.91			144.81	35.90
W-3A	10/26/2012	111.73	DRY			136.79	NA
W-4	10/26/2012	129.71	110.00			142.56	32.56
W-7	10/26/2012	NM	94.35			141.97	47.62
W-8	10/26/2012	NM	78.72			141.11	62.39
W-9	10/26/2012	110.37	90.81			139.84	49.03
W-10	10/26/2012	110.21	96.62			140.71	44.09
W-11	10/26/2012	112.61	97.43			142.10	44.67
W-12	10/26/2012	116.10	102.59			145.15	42.56
W-14 A	10/26/2012	112.00	94.32			114.71	20.39
W-14 B	10/26/2012	167.00	93.52			114.78	21.26
W-14 C	10/26/2012	195.00	93.75			114.78	21.03
W-15 A	10/26/2012	125.70	113.38	110.91	2.47	127.59	16.19
W-15 B	10/26/2012	155.60	111.40			127.61	16.21
W-15 C	10/26/2012	197.34	112.02			127.59	15.57
W-16 A	10/26/2012	123.12	112.10			147.60	35.50
W-16 B	10/26/2012	160.25	120.07			147.68	27.61
W-16 C	10/26/2012	196.30	119.84			147.67	27.83
W-17 A	10/26/2012	108.30	96.07			141.38	45.31
W-17 B	10/26/2012	169.60	109.06			141.37	32.31
W-17 C	10/26/2012	200.00	109.12			141.38	32.26
MW-101	10/26/2012	90.72	DRY			138.00	NA
MW-103	10/26/2012	94.70	DRY			139.36	NA
MW-104A	10/26/2012	100.08	92.89			144.13	51.24
MW-105	10/26/2012	100.47	DRY			141.16	NA
MW-106A	10/26/2012	110.00	104.03			152.81	48.78
MW-107A	10/26/2012	109.49	104.05			147.02	42.97
MW-201	10/26/2012	101.60	DRY			135.65	NA
MW-202	10/26/2012	92.55	DRY			140.62	NA
MW-203	10/26/2012	102.30	DRY			143.71	NA
MW-204	10/26/2012	103.10	DRY			142.90	NA
MW-205	10/26/2012	98.27	DRY			140.09	NA
MW-501A	10/26/2012	93.27	DRY			130.89	NA
MW-502	10/26/2012	100.59	DRY			131.00	NA
MW-503B	10/26/2012	108.67	100.59			132.66	32.07
MW-504	10/26/2012	95.76	DRY			137.18	NA
MW-600A	10/26/2012	92.70	DRY			124.26	NA
MW-601A	10/26/2012	89.90	DRY			126.53	NA
MW-603	10/26/2012	97.60	DRY			120.95	NA
MW-604	10/26/2012	103.20	DRY			140.07	NA
MW-605	10/26/2012	93.98	DRY			116.82	NA
MW-606	10/26/2012	99.05	DRY			116.06	NA
MW-607	10/26/2012	107.05	DRY			128.28	NA
MW-701	10/26/2012	130.00	98.51			139.48	40.97
MW-702	10/26/2012	130.00	98.26			140.12	41.86
MW-703	10/26/2012	130.00	99.96			137.23	37.27
MW-704	10/26/2012	130.00	101.79			137.66	35.87
MW-705	10/26/2012	130.00	102.94			141.94	39.00
MW-706	10/26/2012	130.00	99.47			139.30	39.83
MW-707	10/26/2012	130.00	97.49			128.43	30.94
MW-708	10/26/2012	130.00	96.88	96.69	0.19	126.26	29.53
MW-709	10/26/2012	130.00	109.15			139.78	30.63

Table II
Summary of Groundwater Level Measurements
Former CENCO Refinery
Santa Fe Springs, CA
4Q2012

Well ID	Date	Total Depth	Depth to Groundwater	Depth To FPPH	FPPH Thickness	Top of Casing Elevation	Groundwater Elevation
MW-710	10/26/2012	130.00	95.32			121.99	26.67
MW-711	10/26/2012	130.00	102.17			127.84	25.67
MW-712	10/26/2012	130.00	99.19			123.31	24.12
MW-713	10/26/2012	130.00	104.81			128.15	23.34
MW-714	10/26/2012	142.00	105.70			128.87	23.17
MW-715	10/26/2012	134.00	97.65			116.22	18.57

NOTES:

ft Feet
FPPH Free-phase petroleum hydrocarbons
amsl Above mean sea level
NM Not measured, inaccessible
NA Not available/applicable

Table III
Summary of Total Petroleum Hydrocarbon (TPH) and VOC Results
Former Powerine Refinery
Santa Fe Springs, CA
4Q2012

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC
EW-1	UG/L	11/1/1989	9800	730	16	1400A								<5		9.8			<5	<5	29
EW-1	UG/L	3/1/1990		1800	300	1800								<25		<50			<25	<25	<100
EW-1	UG/L	4/1/1990		1300	290	1600								<1		20	110		<10	<10	<20
EW-1	UG/L	8/21/1998	5000	230	<50	630			<50		150	<50	<50	<50		<50	<50		<50	<50	<100
EW-1	UG/L	1/28/1999	7900	110	<50	540			<50		130	<50	<50	<50		<50	<50		<50	<50	<100
EW-1	UG/L	7/19/1999	8000	110	<25	1000			<25		<250	<25	25	<25		<25	<25		<25	<13	<13
EW-1	UG/L	1/13/2000	NS	NS	NS	NS			NS		NS	NS	NS	NS		NS	NS		NS	NS	NS
EW-1	UG/L	7/31/2000	NS	NS	NS	NS			NS		NS	NS	NS	NS		NS	NS		NS	NS	NS
EW-1	UG/L	2/6/2001	NS	NS	NS	NS			NS		NS	NS	NS	NS		NS	NS		NS	NS	NS
EW-1	UG/L	7/26/2001	NS	NS	NS	NS			NS		NS	NS	NS	NS		NS	NS		NS	NS	NS
EW-1	UG/L	5/6/2002	NS	NS	NS	NS			NS	NS	NS	NS	NS	NS		NS	NS		NS	NS	NS
EW-1	UG/L	9/25/2002	NS	NS	NS	NS			NS	NS	NS	NS	NS	NS		NS	NS		NS	NS	NS
EW-1	UG/L	11/10/2006	4800	65	<4	68	16	<4	<10	<100	42	6.9	<4	<4		8.4	6.3		<4	<4	<10
EW-1	UG/L	2/9/2007	4100	41	<2	39	9.4	<2	<5	<50	26	5.1	2.3	<2		7.8	6.5		<2	<2	<5
EW-1	UG/L	5/10/2007	3300	19	1.5	15	3.7	<4	<10	17	10	2.6	1.4	<4		6.9	6.9		<4	<4	<10
EW-1	UG/L	8/10/2007	3200	36	2.3	14	4.7	0.64	<5	15	20	3.2	1.4	<2		9.9	11		0.35	<2	<5
EW-1	UG/L	2/8/2008	4100	73	1.9	4.9	<4	<4	<10	31	5.3	0.48	<4	<4		14	9.8		0.54	<4	2.6
EW-1	UG/L	2/3/2011	4500	20	1.5	27	13	<0.50	<1.0	<10	42	<1.0	<1.0	<1.0	1.3	5.9	4.0	<1.0	<1.0	<0.50	<1.0
EW-1	UG/L	2/3/2011	4200	20	1.4	27	13	<0.50	<1.0	<10	22	<1.0	<1.0	<1.0	1.1	5.1	3.5	<1.0	<1.0	<0.50	<1.0
EW-1	UG/L	4/13/2011	4700	29	3.2	51	28	0.74	<1.0	<10	67	1.9	<1.0	<1.0	3.7	8.9	8.6	<1.0	<1.0	<0.50	<1.0
EW-1	UG/L	11/13/2012	2900	<0.50	<0.50	5.8	1.4	<0.50	<1.0	<10	120	1.3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-104A	UG/L	7/19/1999	<500	<0.5	<1	<1			<1		<10	<1	<1	<1		<1	5.6		<1	1.2	<0.5
MW-104A	UG/L	1/13/2000	<500	<0.5	<1	<1			<1		<10	<1	<1	<1		<1	6.7		<1	<0.5	5.7
MW-104A	UG/L	8/2/2000	<500	<0.5	<1	<1			<1		<10	<1	<1	<1		<1	5.4		<1	<0.5	<0.5
MW-104A	UG/L	2/7/2001	<500	<0.5	<1	<1			<1		<10	<1	<1	<1		<1	4.2		<1	<0.5	<0.5
MW-104A	UG/L	7/25/2001	<100	<0.5	<1	<1			<1		<10	<1	<1	<1		<1	3.9		<1	<0.5	<0.5
MW-104A	UG/L	5/7/2002	100	<0.5	<1	<1			<1	31000	<10	<1	<1	<1		<1	4.3		<1	<0.5	<0.5
MW-104A	UG/L	9/24/2002	<100	<0.5	<1	<1			<1	20000	<10	<1	<1	<1		1.4	5.4		<1	<0.5	<0.5
MW-104A	UG/L	6/30/2004	<200	<5	<5	<5			<5	30J		<5	<5	<5		2J	8.1		<5	<5	<5
MW-104A	UG/L	10/7/2005	<100	<0.5	<1	<1	<1	<1	<1	83	<10	<1	<1	<1		<1	3.4		<1	<0.5	<0.5
MW-104A	UG/L	2/15/2006	<50	<1	<5	<5	<5	<5	<1	30	<5	<5	<5	<5		<5	2		<5	<5	<5
MW-104A	UG/L	2/7/2007	540	<2	<2	<2	<2	<2	<5	120	<5	<2	<2	<2		<2	<2		<2	<2	<5
MW-104A	UG/L	5/8/2007	33	<2	0.37	<2	<2	<2	<5	340	<5	<2	<2	<2		<2	1.8		<2	<2	<5
MW-104A	UG/L	8/8/2007	<50	<2	<2	<2	<2	<2	<5	150	<5	<2	<2	<2		0.51	2.9		<2	<2	<5
MW-104A	UG/L	11/5/2007	<30	<0.28	<0.36	<0.25	<0.6	<0.3	<0.32	81	<0.41	<0.23	<0.26	<0.32		0.71	4		<0.27	<0.28	<0.3
MW-104A	UG/L	2/4/2008	<50	<2	<2	<2	<2	<2	<5	71	<5	<2	<2	<2		0.91	5.2		<2	<2	<5
MW-104A	UG/L	1/16/2009	46	<2	<2	<2	1	<2	<5	23	<5	0.55	<2	<2		0.57	4.6		<2	<2	<5
MW-104A	UG/L	4/22/2009	<50	<2	<2	<2	<2	<2	<5	38	<5	<2	<2	<2		0.62	4.5		<2	<2	<5
MW-104A	UG/L	3/3/2010	<50	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	3.7		<1.0	<0.50	<1.0
MW-104A	UG/L	8/4/2010	<50	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	4.5		<1.0	<0.50	<1.0
MW-104A	UG/L	11/3/2010	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	3.6	<1.0	<1.0	<0.50	<1.0
MW-104A	UG/L	2/2/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.1	<1.0	<1.0	<0.50	<1.0
MW-104A	UG/L	2/2/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.2	<1.0	<1.0	<0.50	<1.0
MW-104A	UG/L	4/14/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	1.0	<1.0	6.4	<1.0	<1.0	<0.50	<1.0
MW-104A	UG/L	8/24/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0			3.3	<1.0	<1.0	<0.50	
MW-104A	UG/L	11/10/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.4	<1.0	<1.0	<0.50	<1.0
MW-104A	UG/L	11/10/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.6	<1.0	<1.0	<0.50	<1.0
MW-104A	UG/L	2/9/2012	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	3.8	<1.0	<1.0	<0.50	<1.0
MW-104A	UG/L	5/9/2012	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	18	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	4.3	<1.0	<1.0	<0.50	<1.0
MW-104A	UG/L	8/27/2012	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	3.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
MW-104A	UG/L	11/6/2012	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.7	<1.0	<1.0	<0.50	<1.0
MW-106A	UG/L	8/2/2006	310	2.6	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		21	13		<2	<2	10
MW-106A	UG/L	11/9/2006	82	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		17	14		<2	<2	7
MW-106A	UG/L	2/8/2007	270	2.6	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		20	15		<2	<2	13
MW-106A	UG/L	5/10/2007	210	1.5	<2	0.28	<2	<2	<5	20	<5	<2	<2	<2		12	9.9		0.6	<2	7.9
MW-106A	UG/L	8/9/2007	270	1.6	<2	0.6	<2	<2	<5	19	0.69	<2	<2	<2		14	12		0.83	<2	12
MW-106A	UG/L	11/7/2007	240	1.4	<0.36	0.84	<0.6	<0.3	<0.32	20	1.6	<0.23	<0.26	<0.32		9.5	11		0.7	<0.28	9.9
MW-106A	UG/L	2/5/2008	220	1.6	<2	0.42	<2	<2	<5	16	1.8	<2	<2	<2		7.8	10		0.73	<2	10
MW-106A	UG/L	1/19/2009	220	0.46	<2	<2	<2	<2	<5	17	<5	<2	<2	<2		11	13		0.99	<2	6.3
MW-106A	UG/L	4/23/2009	290	1.9	<2	3.7	<2	<2	<5	18	0.93	<2	<2	<2		6.3	5.5		0.82	<2	10
MW-106A	UG/L	3/5/2010	590	8.4	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		2.0	3.5		<1.0	<0.50	<1.0
MW-106A	UG/L	5/13/2010	460	8.6	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		2.0	<1.0		<1.0	<0.50	21
MW-106A	UG/L	8/6/2010	450	12	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		3.5	1.0		1.2	<0.50	25
MW-106A	UG/L	11/4/2010	630	0.64	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.				

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC
MW-106A	UG/L	2/3/2011	570	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	<0.50	<1 0
MW-106A	UG/L	4/19/2011	480	0.63	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1 0	1.0	<1.0	<1.0	<0.50	6.9
MW-106A	UG/L	8/25/2011	540	0.51	<0.50	<0.50	<1.0	<0.50	<1.0	26	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	4.8
MW-106A	UG/L	11/14/2011	440	0.87	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1 0
MW-106A	UG/L	2/3/2012	440	2.7	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	<0.50	11
MW-106A	UG/L	5/8/2012	630	7.1	<0.50	0.87	1.5	<0.50	<1.0	13	7.2	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	<0.50	23
MW-106A	UG/L	8/24/2012	470	4.8	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	<0.50	11
MW-106A	UG/L	11/6/2012	610	6.9	<0.50	0.83	<1.0	<0.50	<1.0	<10	1.5	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	<0.50	78
MW-107A	UG/L	8/2/2006	770	3.7	<2	<2	3.4	<2	<5	<50	<5	<2	<2	<2		2.4	3.9		<2	<2	<5
MW-107A	UG/L	11/9/2006	780	24	<2	4.7	9.1	<2	<5	<50	<5	<2	<2	<2		5.3	6.2		<2	<2	<5
MW-107A	UG/L	2/8/2007	500	80	<2	21	25	<2	<5	<50	7.4	<2	<2	<2		7.4	9.6		<2	<2	<5
MW-107A	UG/L	5/10/2007	670	42	1	14	17	<2	<5	21	6	<2	0.29	<2		6	6.6		<2	<2	2
MW-107A	UG/L	8/9/2007	1000	61	2	15	41	<2	<5	18	8.5	<2	0.33	<2		9.5	8.8		0.31	<2	2.3
MW-107A	UG/L	11/7/2007	1500	44	4 2	16	26	<0.3	<0.32	35	11	<0.23	0.49	<0.32		9.4	6.4		0.3	<0 28	4.4
MW-107A	UG/L	2/5/2008	2800	19	3	3	12	<2	<5	37	3.9	<2	0.38	<2		9.2	5.6		0.29	<2	5
MW-107A	UG/L	1/19/2009	1100	13	1 9	1.5	9.9	0.43	<5	66	1.1	<2	0.29	<2		7.3	6.8		<2	<2	2
MW-107A	UG/L	1/19/2009	1200	12	1 9	1.6	9.6	0.38	<5	62	1.3	<2	0.27	<2		7.5	7.2		<2	<2	1.8
MW-107A	UG/L	4/23/2009	1300	74	1.1	13	94	0.47	<5	67	6.6	3.2	2.8	<2		10	8.5		<2	<2	1.3
MW-107A	UG/L	4/23/2009	2400	79	1 2	13	91	0.47	<5	66	7.5	3	2.7	<2		11	9.4		<2	<2	1.3
MW-107A	UG/L	3/5/2010	1100	17	0.68	1.6		<0.50	<1.0	<10	6.0	<1.0	<1.0	<1.0		7.6	6.8		<1.0	<0.50	<1.0
MW-107A	UG/L	3/5/2010	1300	16	0.66	1.7		<0.50	<1.0	<10	5.6	<1.0	<1.0	<1.0		7.4	6.4		<1.0	<0.50	<1.0
MW-107A	UG/L	5/13/2010	1500	7.6	11	4.1		2.0	4.7	<10	3.3	2.0	<1.0	<1.0		4.7	4.8		<1.0	<0.50	<1.0
MW-107A	UG/L	5/13/2010	1100	8.8	11	4.2		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		5.9	5.9		<1.0	<0.50	<1.0
MW-107A	UG/L	8/6/2010	1300	120	150	39		1.3	<1.0	<10	24	1.9	<1 0	<1.0		7.5	10		<1.0	<0 50	<1.0
MW-107A	UG/L	8/6/2010	1300	120	160	39		1.3	<1.0	<10	29	1.9	<1 0	<1.0		7.0	9.5		<1.0	<0.50	<1.0
MW-107A	UG/L	11/4/2010	1400	39	11	16	29	<0.50	<1.0	<10	4.1	<1.0	<1 0	<1.0	7 5	5.8	7.7	<1.0	<1.0	<0.50	<1.0
MW-107A	UG/L	11/4/2010	1600	36	10	14	26	<0.50	<1.0	<10	4.2	<1.0	<1 0	<1.0	7.1	5.1	6.9	<1.0	<1.0	<0.50	<1.0
MW-107A	UG/L	2/3/2011	740	4.1	2 2	3.2	14	<0.50	<1.0	<10	1.2	<1.0	<1.0	<1.0	3 3	2.4	3.2	<1.0	<1.0	<0.50	<1 0
MW-107A	UG/L	4/19/2011	1200	2.4	0.90	1.2	4.7	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	5.4	3.6	5.0	<1.0	<1.0	<0.50	<1 0
MW-107A	UG/L	4/19/2011	1200	2.6	0.99	1.2	5.2	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	5 9	4.2	5.9	<1.0	<1.0	<0.50	<1 0
MW-107A	UG/L	8/25/2011	590	0.95	<0.50	<0.50	1.8	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	2.4	1.7	3.4	<1.0	<1.0	<0.50	<1 0
MW-107A	UG/L	8/25/2011	480	0.84	<0.50	<0.50	1.4	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	1 9	1.4	3.0	<1.0	<1.0	<0.50	<1 0
MW-107A	UG/L	11/14/2011	550	1.0	<0.50	<0.50	1.6	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	2 0	<1.0	4.8	<1.0	<1.0	<0.50	<1 0
MW-107A	UG/L	1/31/2012	500	0.97	0.54	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	3.6	2.6	7.8	<1.0	<1.0	<0.50	<1 0
MW-107A	UG/L	5/8/2012	710	0.78	<0.50	<0.50	<1.0	<0.50	<1.0	<10	2.1	<1.0	<1.0	<1.0	1.7	1.6	3.4	<1.0	<1.0	<0.50	<1 0
MW-107A	UG/L	8/24/2012	720	1.0	<0.50	<0.50	<1.0	<0.50	<1.0	11	<1.0	<1.0	<1.0	<1.0	2.5	1.8	3.4	<1.0	<1.0	<0.50	<1 0
MW-107A	UG/L	11/6/2012	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	<0.50	<1 0
MW-503B	UG/L	2/9/1999	10000	970	<50	420					<50	<50	<50	<50		150	110		<50	<50	<100
MW-503B	UG/L	7/19/1999	7800	630	<20	540			<20		<200	<20	<20	<20		250	180		<20	<10	<10
MW-503B	UG/L	1/14/2000	14000	1000	32	870			<20		<200	<20	<20	<20		200	210		<20	<10	<10
MW-503B	UG/L	8/4/2000	5600	610	19	500			<10		23	<10	<10	<10		160	140		<10	<5	<5
MW-503B	UG/L	2/6/2001	5800	250	<20	320			<20		<200	<20	<20	<20		150	84		<20	<10	<10
MW-503B	UG/L	7/25/2001	5700	280		230			<50		<500	<50	<50	<50		57	<50		<50	<25	<25
MW-503B	UG/L	5/9/2002	4500	81	3 5	77			<2	<20000	26	2.5	2.2	<2		23	23		<2	<1	7.7
MW-503B	UG/L	9/26/2002	3300	36	9.6	140			<1	<10000	48	2.5	3.7	<1		16	18		<1	<0.5	10
MW-503B	UG/L	7/1/2004	5900	160	37	89	42	<0.5	<5	<100	42	3J	4J	<5			3J		<5	<5	<5
MW-503B	UG/L	10/5/2005	5400	1100	<20	73	38	<20	<20	<200	<200	<20	<20	<20		<20	<20		<20	<10	<10
MW-503B	UG/L	2/14/2006	5450	331	<50	12	<250	<250	<10	<100	<50	<50	<50	<50		<50	<50		<50	<50	<50
MW-503B	UG/L	8/4/2006	4700	31	<2	3.5	2.1	2	7.6	<50	<5	<2	<2	<2		3.1	7.2		<2	<2	5.8
MW-503B	UG/L	11/10/2006	3500	26	<4	4.7	<4	<4	<10	<100	<10	<4	<4	<4		<4	4.9		<4	<4	<10
MW-503B	UG/L	2/9/2007	1600	59	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		2.2	11		<2	<2	5.4
MW-503B	UG/L	5/11/2007	1800	60	0.58	2.1	1	<2	1.3	<50	1.5	<2	0.61	<2		2.6	17		0.63	0.47	7.4
MW-503B	UG/L	8/10/2007	1800	80	0.62	1.7	1.1	<2	<5	<50	<5	0 23	0.44	<2		2	19		0.48	0.64	7.6
MW-503B	UG/L	11/8/2007	2400	270	3.6	3.7	4.7	<1.2	2.8	<20	11	<0.92	<1	<1.3		<1.1	15		<1.1	<1.1	7
MW-503B	UG/L	2/11/2008	2700	220	3.1	3.4	3.5	<8	3.4	<200	18	<8	<8	<8		1.4	21		<8	<8	6.3
MW-503B	UG/L	1/21/2009	6200	410	14	39	28	<10	<25	<250	36	<10	<10	<10		<10	<10		<10	<10	25
MW-503B	UG/L	4/27/2009	4000	210	11	24	18	2.9	2.2	<50	29	0 53	2.9	<2		<2	4.8		<2	1 2	25
MW-503B	UG/L	3/8/2010	2800	40	1.4	1.7		<0.50	2.9	<10	<1.0	<1.0	<1.0	<1.0		<1 0	<1.0		<1.0	<0.50	6.7
MW-503B	UG/L	5/17/2010	2900	91	1 0	1.2		<0.50	5.1	<10	1.4	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	1.6	5.7
MW-503B	UG/L	8/9/2010	3700	270	5 3	2.4		0.65	<1.0	<10	3.4	<1.0	1.3	<1.0		<1.0	<1.0		<1.0	3.8	5.4
MW-503B	UG/L	11/8/2010	8000	690	320	180	580	170	8.2	<10	97	370	140	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<0 50	5.9
MW-503B	UG/L	11/8/2010	12000	940	440	250	800	230													

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Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC
MW-714	UG/L	2/13/2012	760	3.9	<0.50	<0.50	<1.0	<0.50	7.1	23	<1.0	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	<0.50	<1 0
MW-714	UG/L	2/13/2012	730	5.0	0.72	<0.50	1.1	<0.50	8.4	29	<1.0	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	<0.50	<1 0
MW-714	UG/L	5/18/2012	390	2.4	<0.50	<0.50	<1.0	<0.50	7.1	<10	1.2	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	<0.50	<1 0
MW-714	UG/L	9/6/2012	500	1.6	<0.50	<0.50	<1.0	<0 50	2.3	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	<0.50	<1 0
MW-714	UG/L	11/19/2012	<50	1.2	<0.50	<0.50	<1.0	<0 50	2.4	20	3.7	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	<0.50	<1 0
MW-715	UG/L	2/14/2011	2000	480	12	1.7	24	7.4	2.8	<10	<1.0	2.6	4.2	<1.0	<1.0	<1.0	1.5	<1.0	<1.0	<0.50	<1.0
MW-715	UG/L	4/8/2011	1500	310	5.6	1.0	3.6	1.6	8.8	<10	3.8	<1.0	1.7	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	<0.50	<1 0
MW-715	UG/L	9/2/2011	5500	800	2 5	4.0	12	5.3	8.2	22	5.0	4.5	4.8	<1.0	<1.0	<1.0	1.5	<1.0	<1.0	0.56	1.9
MW-715	UG/L	9/2/2011	1100	420	1.4	2.2	6.1	2.5	7.9	20	3.8	2.5	4.6	<1.0	<1.0	<1.0	1.5	<1.0	<1.0	0.53	1.2
MW-715	UG/L	11/22/2011	1500	450	1 5	6.0	<1.0	<0.50	8.5	11	3.5	4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1 0
MW-715	UG/L	2/1/2012	860	270	2.6	1.7	5.6	1.1	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	<0.50	<1 0
MW-715	UG/L	5/18/2012	13000	2100	19	1100	1900	350	4.3	<10	230	930	270	<1.0	<1.0	<1.0	1.4	<1 0	<1.0	<0 50	2.1
MW-715	UG/L	9/6/2012	610	11	0.56	62	<1.0	<0.50	1.2	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	<0.50	<1 0
MW-715	UG/L	11/19/2012	<50	0.52	<0.50	<0.50	<1.0	<0.50	<1.0	<10	2.2	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	<0.50	<1 0
W-1	UG/L	11/1/1989		390	3 9	2.1								<0.5A		<0 5A			3.5A	<0.5A	21
W-1	UG/L	3/1/1990		140	<5	<5								<5		<10			<5	<5	<20
W-1	UG/L	4/1/1990		200	12	12								<5		<5	<25		1.6	<5	<5
W-1	UG/L	12/18/1996	800	78	<5	<5			<10		10	<5	<5	<5		<5	<5		<5	<5	<10
W-1	UG/L	1/14/1998	1100	62	<5	<5			<5		<10	<5	<5	<5		<5	<5		<5	<5	16
W-1	UG/L	8/20/1998	1200	79	<5	<5			14		<10	<5	<5	<5		<5	8.6		8.4	<5	26
W-1	UG/L	1/29/1999	1400	57	<5	<5			<5		<10	<5	<5	<5		<5	<5		<5	<5	18
W-1	UG/L	7/19/1999	1500	48	<2	<2			<2		<20	<2	<2	<2		<2	<2		<2	<1	<1
W-1	UG/L	8/3/2000	880	29	<1	<1			10		<10	<1	<1	<1		<1	1.6		1.6	<0.5	7.3
W-1	UG/L	2/8/2001	<500	21	<1	<1			68		<10	<1	<1	<1		<1	2.3		<1	<0.5	6.3
W-1	UG/L	7/26/2001	620	18	<1	<1			62		<10	<1	<1	<1		<1	2.8		1.8	<0.5	6.8
W-1	UG/L	5/8/2002	280	7.7	<1	<1			5.9	44000	<10	<1	<1	<1		<1	3.1		<1	<0.5	6.4
W-1	UG/L	9/25/2002	210	12	<1	<1			1.9	30000	<10	<1	<1	<1		<1	6.5		<1	<0.5	14
W-1	UG/L	7/1/2004	460	14	2 8	1.5	<0.5	<0.5	3J	<100	<5	<5	<5	<5		4J	9.3		1J	<5	2
W-1	UG/L	10/6/2005	310	43	<1	<1	<1	<1	25	34	<10	<1	<1	<1		1.6	<1		<1	<0.5	7.1
W-1	UG/L	2/15/2006	266	32	<5	<5	<5	<5	22	37	<5	<5	<5	<5		1.3	<5		<5	<5	3.3
W-1	UG/L	8/3/2006	1100	86	<2	<2	<2	<2	77	100	<5	<2	<2	<2		<2	<2		<2	<2	<5
W-1	UG/L	11/9/2006	470	100	<2	<2	<2	<2	65	78	<5	<2	<2	<2		<2	<2		<2	<2	<5
W-1	UG/L	2/8/2007	500	77	<2	<2	<2	<2	21	<50	<5	<2	<2	<2		<2	<2		<2	<2	<5
W-1	UG/L	5/10/2007	890	110	0.57	0.61	<2	0.32	28	43	1	<2	<2	<2		0.42	<2		<2	<2	1.8
W-1	UG/L	8/9/2007	1100	140	0.84	0.84	<2	0.63	64	84	1.1	<2	<2	<2		0.47	<2		0.32	<2	1.9
W-1	UG/L	11/7/2007	1200	140	1.6	1.2	0.68	0.91	56	80	1.6	0 38	2.1	<0.32		0.7	<0.32		<0.27	<0.28	1.2
W-1	UG/L	2/7/2008	1000	96	<2	<2	<2	<2	31	51	<5	<2	<2	<2		<2	<2		<2	<2	<5
W-1	UG/L	1/20/2009	230	15	<2	<2	<2	<2	3.1	23	<5	<2	<2	<2		0.87	<2		0.58	<2	2.8
W-1	UG/L	1/20/2009	220	19	<2	<2	<2	<2	3.9	35	<5	<2	<2	<2		1.1	0.4		0.61	<2	3.7
W-1	UG/L	4/24/2009	180	3.9	<2	<2	<2	<2	<5	26	<5	<2	<2	<2		1.4	<2		0.74	<2	9.5
W-1	UG/L	3/5/2010	270	3.3	<0.50	<0.50		<0 50	<1.0	<10	<1 0	<1.0	<1.0	<1.0		<1 0	<1.0		<1.0	<0.50	1.3
W-1	UG/L	5/13/2010	260	9.3	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1 0	<1.0		<1.0	<0.50	1.2
W-1	UG/L	8/6/2010	260	17	<0.50	<0.50		<0.50	<1.0	10	<1.0	<1.0	<1.0	<1.0		<1 0	<1.0		<1.0	<0.50	<1 0
W-1	UG/L	11/5/2010	150	15	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	<0.50	<1 0
W-1	UG/L	2/4/2011	200	2.7	<0.50	<0.50	<1.0	<0 50	<1.0	<10	<1 0	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	<0.50	<1 0
W-1	UG/L	4/14/2011	150	1.4	<0.50	<0.50	<1.0	<0 50	<1.0	<10	<1 0	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	<0.50	<1 0
W-1	UG/L	8/26/2011	130	3.9	<0.50	<0.50	<1.0	<0 50	1.3	16	<1.0	<1.0	<1.0	<1.0	<1.0	4.2	<1.0	<1.0	<1.0	<0.50	6.4
W-1	UG/L	11/14/2011	160	12	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	<0.50	<1 0
W-1	UG/L	11/14/2011	160	12	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	5.1	<1.0	<1.0	<1.0	<0.50	<1 0
W-1	UG/L	2/6/2012	160	18	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	3.7	<1.0	<1.0	<1.0	<0.50	2.4
W-1	UG/L	5/7/2012	680	15	<0.50	<0.50	<1.0	<0.50	<1.0	23	<1.0	<1.0	<1.0	<1.0	<1.0	2.2	<1.0	<1.0	<1.0	<0.50	1.8
W-1	UG/L	8/27/2012	180	9.1	<0.50	<0.50	<1.0	<0 50	<1.0	<10	<1 0	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	<0.50	<1 0
W-1	UG/L	11/5/2012	67	1.2	<0.50	<0.50	<1.0	<0 50	<1.0	<10	4.4	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	<0.50	<1 0
W-10	UG/L	11/8/2006	26000	8200	5000	570	2100	820	<100	<1000	340	360	110	<40		<40	<40		<40	<40	<100
W-10	UG/L	2/9/2007	28000	6400	2200	520	2200	710	<500	<5000	<500	280	<200	<200		<200	<200		<200	<200	<500
W-10	UG/L	2/9/2007	26000	5100	1600	410	1800	570	<500	<5000	<500	260	<200	<200		<200	<200		<200	<200	<500
W-10	UG/L	5/11/2007	7900	430	140	100	480	130	<10	84	100	130	48	<4		<4	6		8.2	1 2	3.6
W-10	UG/L	5/11/2007	7800	500	160	110	540	150	<25	85	150	150	53	<10		<10	6.6		8.8	1.4	3.9
W-10	UG/L	8/9/2007	5400	590	20	82	330	40	<25	68	59	90	33	<10		<10	6.4		8	<10	3
W-10	UG/L	11/9/2007	<12000	4700	460	330	1300	240	<32	<490	240	190	55	<32		<27	<32		<27	<28	<30
W-10	UG/L	2/8/2008	<28000	7200	280	300	1300	190	<500	<5000	140	140	38	<200		<200	<200		<200	<200	<500
W-10	UG/L	2/8/2008	<25000	7600	310	330	1400	200	<500	<5000	170	150	42	<200		<200	&				

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC
W-10	UG/L	8/9/2010	7900	2400	12	130		1.9	<1.0	93	60	62	10	<1.0		<1.0	<1.0		<1.0	3 0	<1.0
W-10	UG/L	11/8/2010	7700	2900	45	160	140	6.4	<1.0	<10	180	56	8.1	<1.0	<1.0	<1.0	<1.0	<1 0	1.0	2.6	1.4
W-10	UG/L	2/8/2011	11000	2600	100	160	140	28	<1.0	<10	150	61	13	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	4 0	<1.0
W-10	UG/L	4/21/2011	12000	4900	97	240	190	38	<1.0	250	150	65	15	<1.0	<1.0	<1.0	<1.0	<1 0	1.6	12	<1.0
W-10	UG/L	9/1/2011	8200	2900	2 2	120	44	1.1	<1.0	140	97	31	5.7	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	4 9	<1.0
W-10	UG/L	11/16/2011	8800	840	3 9	190	92	1.1	<1.0	<10	94	49	10	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<0.50	<1.0
W-10	UG/L	2/8/2012	10000	3100	5 5	230	150	2.9	<1.0	<10	130	73	12	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	5.6	<1.0
W-10	UG/L	5/10/2012	1000	15	<0.50	1.4	1.2	<0.50	<1.0	<10	21	4.3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1 0
W-10	UG/L	8/28/2012	8200	3100	4 3	160	32	1.4	<1.0	61	270	27	2.8	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2 8	<1.0
W-10	UG/L	11/7/2012	5100	930	7 9	120	65	2.9	<1.0	65	130	27	4.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2 3	<1.0
W-11	UG/L	11/9/2006	5200	99	12	74	240	37	<5	<50	<5	73	40	<2		<2	18		<2	<2	<5
W-11	UG/L	11/9/2006	12000	96	7 8	54	140	21	<5	<50	<5	60	34	<2		<2	18		<2	<2	<5
W-11	UG/L	2/9/2007	8000	95	14	78	280	27	<10	<100	<10	56	28	<4		<4	15		<4	<4	<10
W-11	UG/L	5/9/2007	540	45	1.6	19	47	3.1	<5	<50	0.68	9	4.4	<2		0.41	18		<2	<2	0.96
W-11	UG/L	8/8/2007	<1100	700	3.7	36	11	7.1	<5	<50	0.81	15	8.6	<2		<2	9.9		<2	0.29	1.1
W-11	UG/L	11/8/2007	460	61	1 2	14	37	13	<0.32	<4.9	1	35	17	<0.32		<0.27	10		<0.27	<0 28	<0.3
W-11	UG/L	12/8/2010	77000	150	51	260	2300	690	17	43	48	1300	800	<1.0	<1.0	<1.0	<1.0	<1 0	1.4	<0 50	<1.0
W-11	UG/L	2/4/2011	10000	100	1 2	23	100	16	<1.0	<10	7.6	100	180	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<0.50	<1.0
W-11	UG/L	4/15/2011	6300	410	15	50	390	18	<1.0	<10	3.4	83	280	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<0 50	<1.0
W-11	UG/L	8/29/2011	10000	560	2 2	57	640	14	<1.0	<10	<1.0	100	190	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<0.50	<1.0
W-11	UG/L	11/14/2011	10000	620	3 0	100	510	7.5	<1.0	<10	6.0	130	240	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<0.50	<1.0
W-11	UG/L	2/8/2012	2900	12	<0.50	6.2	50	0.80	<1.0	<10	2.7	24	39	<1.0	<1.0	<1.0	2.0	<1.0	<1.0	0.90	<1.0
W-11	UG/L	5/10/2012	1800	8.4	<0.50	3.1	7.3	0.80	<1.0	<10	1.7	4.6	10	<1.0	<1.0	<1.0	2.0	<1.0	<1.0	0.50	<1 0
W-11	UG/L	8/28/2012	7400	16	30	47	130	20	<1.0	<10	5.0	70	97	<1.0	<1.0	<1.0	2.1	<1 0	<1.0	<0.50	<1.0
W-11	UG/L	11/8/2012	340	23	3.1	1.6	23	2.0	<1.0	<10	2.5	5.0	63	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1 0
W-11	UG/L	11/19/2012	1400	24	1.6	0.82	6.2	<0.50	<1.0	<10	3.0	3.1	60	<1.0	<1.0	<1.0	5.3	<1.0	<1.0	<0.50	1.3
W-12	UG/L	11/8/2006	1400	<2	<2	<2	<2	<2	<5	55	<5	<2	<2	<2		<2	5.4		<2	<2	<5
W-12	UG/L	2/7/2007	4800	<2	<2	<2	<2	<2	<5	50	<5	<2	<2	<2		<2	6.8		<2	<2	<5
W-12	UG/L	5/9/2007	220	<2	<2	<2	<2	<2	<5	40	<5	<2	<2	<2		0.31	4.3		<2	0.37	1.1
W-12	UG/L	8/8/2007	1100	<2	<2	0.56	<2	<2	0.36	40	<5	<2	<2	<2		<2	3.1		<2	<2	0.85
W-12	UG/L	11/6/2007	1500	0.37	<0.36	0.97	<0.6	<0.3	1.2	58	0.66	<0.23	<0.26	<0.32		<0.27	2.6		<0.27	0.42	0.47
W-12	UG/L	2/8/2008	410	0.94	<2	3	<2	<2	0.82	54	2.5	<2	<2	<2		<2	1.8		<2	0.45	<5
W-12	UG/L	1/20/2009	620	<2	<2	0.69	<2	<2	<5	32	<5	<2	<2	<2		0.48	5.4		<2	<2	2.4
W-12	UG/L	4/22/2009	1100	<2	<2	2.1	<2	<2	0.33	30	8.2	0 26	<2	<2		<2	3.7		<2	<2	1.5
W-12	UG/L	3/4/2010	400	<0.50	<0.50	2.1		<0 50	<1.0	<10	1.5	<1.0	<1.0	<1.0		<1 0	<1.0		<1.0	<0.50	<1 0
W-12	UG/L	5/12/2010	610	<0.50	<0.50	3.0		<0.50	<1.0	<10	2.1	<1.0	<1.0	<1.0		<1 0	<1.0		<1.0	<0.50	<1 0
W-12	UG/L	8/5/2010	650	<0.50	<0.50	3.5		<0 50	<1.0	<10	2.8	<1.0	<1.0	<1.0		<1 0	<1.0		<1.0	<0.50	<1 0
W-12	UG/L	11/4/2010	530	<0.50	<0.50	1.4	<1.0	<0 50	<1.0	<10	1.7	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	<0.50	<1 0
W-12	UG/L	2/3/2011	310	<0.50	<0.50	<0.50	<1.0	<0 50	<1.0	<10	1.0	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	<0.50	<1 0
W-12	UG/L	4/19/2011	220	<0.50	<0.50	0.57	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	<0.50	2.7
W-12	UG/L	8/25/2011	360	<0.50	<0.50	1.3	<1.0	<0 50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	<0.50	<1 0
W-12	UG/L	11/14/2011	63	<0.50	<0.50	<0.50	<1.0	<0 50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	<0.50	<1 0
W-12	UG/L	2/8/2012	400	<0.50	<0.50	2.2	<1.0	<0 50	<1.0	<10	1.6	<1.0	<1.0	<1.0	<1.0	<1 0	2.3	<1.0	<1.0	<0.50	2.2
W-12	UG/L	5/9/2012	450	<0.50	<0.50	0.59	<1.0	<0 50	<1.0	27	1.2	<1.0	<1.0	<1.0	<1.0	<1 0	1.4	<1.0	<1.0	<0.50	1.2
W-12	UG/L	8/30/2012	580	<0.50	<0.50	1.5	1.0	<0.50	<1.0	<10	20	1.2	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	<0.50	<1 0
W-12	UG/L	11/8/2012	<50	<0.50	<0.50	<0.50	<1.0	<0 50	<1.0	<10	<1 0	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	<0.50	<1 0
W-14A	UG/L	2/12/2008	42	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	2.3		1.1	9		0.46	0.37	<5
W-14A	UG/L	1/13/2009	<50	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		<2	<2		<2	<2	<5
W-14A	UG/L	4/21/2009	54	<2	<2	<2	<2	<2	0.47	8.1	<5	<2	<2	1.3		0.86	8.7		0.44	0.4	<5
W-14A	UG/L	3/1/2010	<50	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1 0	1.7		<1.0	<0.50	<1 0
W-14A	UG/L	5/10/2010	<50	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1 0	1.9		<1.0	<0.50	<1 0
W-14A	UG/L	8/2/2010	<50	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1 0	3.4		<1.0	<0.50	<1 0
W-14A	UG/L	11/1/2010	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	<0.50	<1 0
W-14A	UG/L	1/31/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	<0.50	<1 0
W-14A	UG/L	4/4/2011	<50	<0.50	<0.50	<0.50	<1.0	<0 50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1 0	1.6	<1.0	<1.0	<0.50	<1 0
W-14A	UG/L	8/22/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	5.8	1.0	5.2	<1.0	<1.0	<0.50	<1 0
W-14A	UG/L	11/7/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1 0	2.8	<1.0	<1.0	<0.50	<1 0
W-14A	UG/L	1/30/2012	200	1.5	<0.50	38	<1.0	<0.50	<1.0	<10	<1.0	1.1	<1.0	<1.0	3 2	<1 0	10	1.4	<1.0	<0.50	<1 0
W-14A	UG/L	5/1/2012	390	41	<0.50	9.5	1.3	2.7	2.9	<10	<1.0	1.2	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	<0.50	<1 0
W-14A	UG/L	8/20/2012	1600																		

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC
W-14B	UG/L	1/31/2011	65	<0.50	<0.50	<0.50	<1.0	<0 50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	9.7	<1 0	2.0	3.1	<1.0	<0.50	<1 0
W-14B	UG/L	4/4/2011	<50	<0.50	1.8	<0.50	<1.0	<0 50	<1.0	48	<1 0	<1.0	<1.0	15	99	2.8	13	34	2.9	0.53	<1.0
W-14B	UG/L	8/22/2011	200	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	28	130	2.4	9.8	53	3.2	0.98	<1.0
W-14B	UG/L	11/7/2011	<50	<0.50	<0.50	<0.50	<1.0	<0 50	<1.0	<10	<1 0	<1.0	<1.0	<1.0	5.1	<1 0	<1.0	1.8	<1.0	<0.50	<1 0
W-14B	UG/L	1/30/2012	220	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	22	100	<1.0	12	55	3.1	<0.50	<1.0
W-14B	UG/L	5/1/2012	150	<0.50	<0.50	<0.50	<1.0	<0 50	<1.0	69	<1.0	<1.0	<1.0	8.0	82	<1 0	11	53	2.4	<0.50	<1.0
W-14B	UG/L	8/20/2012	180	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	56	<1.0	<1.0	<1.0	8.9	150	2.4	13	60	2.9	<0.50	<1.0
W-14B	UG/L	10/26/2012	52	6.0	<0.50	1.6	4.8	0.89	<1.0	<10	20	1.8	<1.0	4.3	82	1.6	7.4	31	1.6	<0.50	1.9
W-14C	UG/L	2/12/2008	260	1.2	<2	<2	<2	<2	<5	<50	<5	<2	<2	0.89		5.7	22		3.7	0.48	0.58
W-14C	UG/L	1/14/2009	120	2.5	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		8.8	34		3.4	<2	<5
W-14C	UG/L	4/21/2009	67	1.5	<2	<2	<2	<2	<5	10	<5	<2	<2	<2		4.5	23		2.1	<2	<5
W-14C	UG/L	3/1/2010	300	1.6	<0.50	<0.50		<0 50	<1.0	<10	<1 0	<1.0	<1.0	<1.0		5.8	34		2.4	<0.50	<1 0
W-14C	UG/L	5/10/2010	120	0.58	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		2.0	13		<1.0	<0.50	<1 0
W-14C	UG/L	8/2/2010	77	1.1	<0.50	<0.50		<0 50	<1.0	<10	<1 0	<1.0	<1.0	<1.0		4.6	35		2.4	<0.50	<1 0
W-14C	UG/L	11/1/2010	<50	<0.50	<0.50	<0.50	<1.0	<0 50	<1.0	<10	<1 0	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	<0.50	<1 0
W-14C	UG/L	1/31/2011	60	<0.50	<0.50	<0.50	<1.0	<0 50	<1.0	<10	<1 0	<1.0	<1.0	<1.0	3.8	1.1	9.9	3.0	<1.0	<0.50	<1 0
W-14C	UG/L	4/4/2011	<50	1.2	<0.50	<0.50	<1.0	<0 50	<1.0	27	<1 0	<1.0	<1.0	<1.0	24	3.9	30	16	3.1	<0.50	<1 0
W-14C	UG/L	8/22/2011	290	0.73	<0.50	<0.50	<1.0	<0.50	<1.0	22	<1.0	<1.0	<1.0	<1.0	21	2.3	26	12	2.2	<0.50	<1.0
W-14C	UG/L	11/7/2011	<50	<0.50	<0.50	<0.50	<1.0	<0 50	<1.0	<10	<1 0	<1.0	<1.0	<1.0	1.2	<1 0	3.2	<1.0	<1.0	<0.50	<1 0
W-14C	UG/L	1/30/2012	100	<0.50	<0.50	<0.50	<1.0	<0 50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	3.4	<1 0	5.3	2.2	<1.0	<0.50	<1 0
W-14C	UG/L	5/1/2012	<50	<0.50	<0.50	<0.50	<1.0	<0 50	<1.0	<10	<1 0	<1.0	<1.0	<1.0	<1.0	<1 0	3.8	<1.0	<1.0	<0.50	<1 0
W-14C	UG/L	8/20/2012	71	<0.50	<0.50	<0.50	<1.0	<0 50	<1.0	<10	<1 0	<1.0	<1.0	<1.0	<1.0	<1 0	5.8	1.4	<1.0	<0.50	<1 0
W-14C	UG/L	10/26/2012	<50	0.75	<0.50	<0.50	<1.0	<0 50	<1.0	<10	6.1	<1.0	<1.0	<1.0	<1.0	<1 0	8.4	2.6	<1.0	<0.50	2.6
W-15A	UG/L	2/11/2008	2700	620	4 9	5.1	11	<20	650	120	<50	<20	<20	<20		<20	<20		<20	<20	<50
W-15A	UG/L	1/14/2009	230	7.4	<2	<2	<2	<2	190	170	<5	<2	<2	<2		<2	<2		<2	<2	<5
W-15A	UG/L	4/24/2009	530	8.4	<4	<4	<4	<4	220	220	<10	<4	<4	<4		<4	<4		<4	<4	<10
W-15A	UG/L	3/2/2010	240	0.93	<0.50	<0.50		<0.50	44	94	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1 0
W-15A	UG/L	5/10/2010	260	1.5	<0.50	<0.50		<0.50	85	<10	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1 0
W-15A	UG/L	8/2/2010	310	0.54	<0.50	<0.50		<0.50	71	180	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1.0
W-15A	UG/L	11/1/2010	61	<0.50	<0.50	<0.50	<1.0	<0.50	2.5	88	<1.0	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	<0.50	<1 0
W-15A	UG/L	11/1/2010	74	0.66	<0.50	<0.50	1.0	<0.50	6.8	98	<1.0	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	<0.50	<1 0
W-15A	UG/L	2/1/2011	14000	1400	610	400	1800	400	260	390	64	490	200	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	1.6	<1.0
W-15A	UG/L	4/5/2011	22000	<0.50	<0.50	<0.50	<1.0	<0.50	450	<10	150	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-15A	UG/L	2/2/2012	62000	4400	2400	2400	9900	2300	930	<10	4.6	2900	880	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<0 50	<1.0
W-15A	UG/L	5/2/2012	2100000	3900	3600	3900	13000	4400	940	220	450	6200	1800	<10	<10	<10	<10	<10	<10	<5.0	<10
W-15A	UG/L	8/21/2012	23000	540	370	590	3300	620	160	<250	190	1100	340	<25	<25	<25	<25	<25	<25	<12	<25
W-15A	UG/L	10/30/2012	4500	41	23	46	260	75	39	120	330	270	120	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<0 50	<1.0
W-15B	UG/L	2/11/2008	<1600	900	<20	<20	7	<20	20	110	<50	<20	<20	<20		<20	<20		<20	<20	<50
W-15B	UG/L	1/14/2009	340	160	<2	<2	5	<2	20	110	<5	<2	<2	<2		<2	<2		<2	<2	<5
W-15B	UG/L	4/24/2009	63	6.2	<2	<2	<2	<2	5.8	98	<5	<2	<2	<2		<2	<2		<2	<2	<5
W-15B	UG/L	3/2/2010	220	3.8	<0.50	<0.50		<0.50	5.0	<10	<1.0	<1.0	<1.0	<1.0		<1 0	<1.0		<1.0	<0.50	<1 0
W-15B	UG/L	5/11/2010	230	20	<0.50	<0.50		<0.50	17	36	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1 0
W-15B	UG/L	8/3/2010	250	14	<0.50	<0.50		<0.50	19	67	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0		<1.0	<0.50	<1 0
W-15B	UG/L	11/2/2010	740	38	<0.50	<0.50	3.2	0.74	50	87	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1 0
W-15B	UG/L	2/1/2011	120	7.0	1.7	0.55	4.0	1.4	22	21	<1.0	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	<0.50	<1 0
W-15B	UG/L	4/5/2011	1500	<0.50	66	18	120	64	130	<10	6.3	16	16	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<0.50	<1.0
W-15B	UG/L	8/23/2011	1400	120	40	17	110	30	260	210	<1.0	13	7.2	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<0 50	<1.0
W-15B	UG/L	8/23/2011	1100	110	34	15	100	29	200	220	<1.0	14	7.2	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<0 50	<1.0
W-15B	UG/L	11/10/2011	250	17	5.4	2.8	17	3.9	55	<10	<1.0	2.4	1.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1 0
W-15B	UG/L	2/2/2012	280	35	14	4.4	31	18	100	80	<1.0	2.3	3.8	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1.0
W-15B	UG/L	5/2/2012	780	27	2.6	3.1	18	6.3	200	160	<1.0	4.4	2.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1 0
W-15B	UG/L	8/20/2012	98	2.6	<0.50	<0.50	<1.0	0.52	110	87	<1.0	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	<0.50	<1 0
W-15B	UG/L	10/30/2012	190	9.2	2 2	1.5	12	2.7	49	96	43	4.0	1.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<1 0
W-15C	UG/L	2/11/2008	<50	0.94	0.57	<2	<2	<2	<5	18	<5	<2	<2	<2		<2	1.1		0.45	0.35	0.34
W-15C	UG/L	1/15/2009	29	1.1	<2	<2	<2	<2	<5	27	<5	<2	<2	<2		<2	5.7		1.2	0.86	0.9
W-15C	UG/L	4/24/2009	43	<2	<2	<2	<2	<2	<5	25	<5	<2	<2	<2		<2	1		<2	<2	<5
W-15C	UG/L	3/2/2010	<50	<0.50	<0.50	<0.50		<0 50	<1.0	<10	<1 0	<1.0	<1.0	<1.0		<1 0	1.4		<1.0	<0.50	<1 0
W-15C	UG/L	5/11/2010	<50	<0.50	<0.50	<0.50		<0 50	<1.0	<10	<1 0	<1.0	<1.0	<1.0		<1 0					

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC	
W-16A	UG/L	11/9/2007	260	41	<0.36	<0.25	<0.6	<0.3	<0.32	30	<0.41	<0.23	<0.26	<0.32		<0.27	<0.32		2.6	<0.28	16	
W-16A	UG/L	2/6/2008	310	40	<2	<2	<2	<2	<5	34	<5	<2	0.63	<2		0.88	<2		2.8	<2	14	
W-16A	UG/L	1/21/2009	290	30	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		<2	<2		2.5	<2	7.2	
W-16A	UG/L	4/27/2009	410	34	<2	<2	<2	<2	<5	20	<5	<2	0.27	<2		0.54	<2		1.8	<2	17	
W-16A	UG/L	3/5/2010	220	4.2	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1 0	<1.0		<1.0	<0.50	2.9	
W-16A	UG/L	5/14/2010	110	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1 0	<1.0		<1.0	<0.50	<1 0	
W-16A	UG/L	8/9/2010	120	0.93	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1 0	<1.0		<1.0	<0.50	<1 0	
W-16A	UG/L	11/5/2010	90	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	<1.0	<1 0	
W-16A	UG/L	2/7/2011	320	12	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	<1.0	1.1	
W-16A	UG/L	4/18/2011	520	24	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	2.2	<0.50	2.2
W-16A	UG/L	8/26/2011	280	13	<0.50	<0.50	<1.0	<0.50	<1.0	30	<1.0	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	1.2	<0.50	<1 0
W-16A	UG/L	11/8/2011	65	3.1	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	<1.0	<0.50	<1 0
W-16A	UG/L	2/3/2012	230	16	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	1.1	<0.50	<1 0
W-16A	UG/L	5/3/2012	550	22	<0.50	1.0	4.4	1.1	<1.0	<10	<1.0	1.8	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	2.2	<0.50	<1 0
W-16A	UG/L	8/22/2012	390	11	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	<1.0	<0.50	<1 0
W-16A	UG/L	10/31/2012	86	6.9	<0.50	<0.50	<1.0	<0.50	<1.0	<10	3.9	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	<1.0	<0.50	<1 0
W-16B	UG/L	11/9/2007	37	7.4	<0.36	<0.25	<0.6	<0.3	<0.32	9.1	0.8	0.26	<0 26	<0.32		8.7	6.6		<0.27	<0.28	<0 3	
W-16B	UG/L	2/6/2008	400	48	<2	0.33	<2	<2	<5	9 9	1.9	0.4	<2	<2		43	27		<2	<2	<5	
W-16B	UG/L	1/21/2009	73	16	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		15	9.7		<2	<2	<5	
W-16B	UG/L	4/27/2009	47	0.9	<20	<20	<20	<20	<50	<500	<50	<20	<20	<20		9.4	6.1		<20	<20	<50	
W-16B	UG/L	3/8/2010	73	8.6	<0.50	<0.50		<0 50	<1.0	<10	<1 0	<1.0	<1.0	<1.0		3.7	5.8		<1.0	<0.50	<1 0	
W-16B	UG/L	5/14/2010	60	3.0	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		1.0	3.0		<1.0	<0.50	<1 0	
W-16B	UG/L	8/9/2010	<50	1.3	<0.50	<0.50		<0 50	<1.0	<10	<1 0	<1.0	<1.0	<1.0		<1 0	<1.0		<1.0	<0.50	<1 0	
W-16B	UG/L	11/5/2010	110	23	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	9.4	13	<1.0	1.2	<0.50	<1 0	
W-16B	UG/L	2/7/2011	290	80	<0.50	<0.50	<1.0	<0.50	<1.0	<10	18	<1.0	<1.0	<1.0	3 5	50	70	2.0	8.5	<0.50	2.9	
W-16B	UG/L	4/18/2011	550	100	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	6.4	100	89	2.6	9.2	<0.50	10	
W-16B	UG/L	8/26/2011	89	20	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	12	16	<1.0	1.4	<0.50	1.1	
W-16B	UG/L	11/8/2011	<50	24	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	1.0	19	13	<1.0	1.5	<0.50	<1 0	
W-16B	UG/L	2/3/2012	210	30	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	1.4	24	16	<1.0	1.3	<0.50	<1 0	
W-16B	UG/L	5/3/2012	410	150	<0.50	0.58	2.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	3 2	100	52	1.2	6.8	<0.50	23	
W-16B	UG/L	8/22/2012	61	8.7	<0.50	<0.50	<1.0	<0 50	<1.0	<10	<1 0	<1.0	<1.0	<1.0	<1.0	3.5	6.0	<1.0	<1.0	<0.50	<1 0	
W-16B	UG/L	10/31/2012	58	13	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	6.6	4.2	<1.0	<1.0	<0.50	15	
W-16C	UG/L	11/9/2007	170	18	<0.36	<0.25	<0.6	<0.3	<0.32	13	<0.41	<0.23	<0.26	<0.32		12	40		11	<0.28	5.6	
W-16C	UG/L	2/6/2008	360	30	0.46	<2	<2	<2	<5	21	<5	<2	<2	<2		14	66		24	<2	18	
W-16C	UG/L	1/21/2009	510	40	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		17	73		35	<2	24	
W-16C	UG/L	4/28/2009	170	20	<2	<2	<2	<2	<5	8 2	<5	<2	<2	<2		12	41		14	<2	8.2	
W-16C	UG/L	3/8/2010	95	2.5	<0.50	<0.50		<0 50	<1.0	<10	<1 0	<1.0	<1.0	<1.0		1.2	9.1		1.6	<0.50	<1 0	
W-16C	UG/L	5/14/2010	63	1.3	<0.50	<0.50		<0 50	<1.0	<10	<1 0	<1.0	<1.0	<1.0		<1 0	3.8		1.2	<0.50	<1 0	
W-16C	UG/L	8/9/2010	<50	<0.50	<0.50	<0.50		<0 50	<1.0	<10	<1 0	<1.0	<1.0	<1.0		<1 0	<1.0		<1.0	<0.50	<1 0	
W-16C	UG/L	8/9/2010	<50	<0.50	<0.50	<0.50		<0 50	<1.0	<10	<1 0	<1.0	<1.0	<1.0		<1 0	<1.0		<1.0	<0.50	<1 0	
W-16C	UG/L	11/5/2010	390	14	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	7.6	30	1.4	11	<0.50	9.6	
W-16C	UG/L	2/7/2011	440	33	0.54	<0.50	<1.0	<0 50	<1.0	<10	6.9	<1.0	<1.0	<1.0	<1.0	15	68	3.3	22	<0.50	14	
W-16C	UG/L	4/18/2011	510	39	0.51	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	1.2	20	80	4.7	32	<0.50	30	
W-16C	UG/L	8/26/2011	320	30	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	15	63	2.8	24	<0.50	16	
W-16C	UG/L	11/9/2011	270	24	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	1.2	16	58	2.1	16	<0.50	<1.0	
W-16C	UG/L	2/3/2012	250	23	<0.50	<0.50	<1.0	<0 50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	1.0	16	54	2.8	17	<0.50	<1.0	
W-16C	UG/L	5/3/2012	380	14	<0.50	<0.50	2.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	10	32	<1.0	9.8	<0.50	10	
W-16C	UG/L	8/22/2012	520	22	<12	<12	<25	<12	<25	<250	<25	<25	<25	<25	<25	<25	42	<25	<25	<12	<25	
W-16C	UG/L	10/31/2012	140	10	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	6.7	16	<1.0	8.0	<0.50	50	
W-17A	UG/L	2/14/2008	100	<2	<2	<2	<2	<2	<5	140	<5	<2	<2	<2		<2	6.2		0.47	1.4	0.7	
W-17A	UG/L	1/16/2009	78	<2	<2	<2	<2	<2	<5	54	0.41	0 33	<2	<2		0.39	1.4		<2	<2	<5	
W-17A	UG/L	4/22/2009	180	4.5	<2	<2	<2	<2	<5	57	<5	<2	<2	<2		1.9	7.7		0.51	0.65	<5	
W-17A	UG/L	3/3/2010	51	<0.50	<0.50	<0.50		<0.50	<1.0	14	<1.0	<1.0	<1.0	<1.0		<1 0	1.6		<1.0	<0.50	<1 0	
W-17A	UG/L	5/12/2010	110	1.1	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1 0	4.2		<1.0	<0.50	<1 0	
W-17A	UG/L	8/4/2010	56	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1 0	1.7		<1.0	<0.50	<1 0	
W-17A	UG/L	11/3/2010	69	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1 0	1.3	<1.0	<1.0	<0.50	<1 0	
W-17A	UG/L	2/2/2011	<50	<0.50	<0.50	<0.50	<1.0	<0 50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1 0	2.0	<1.0	<1.0	<0.50	<1 0	
W-17A	UG/L	4/20/2011	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	38	<1.0	<1.0	<1.0	<1.0	<1.0	<1 0	2.9	<1.0	<1.0	<0.50	<1	

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC
W-17B	UG/L	3/3/2010	<50	<0.50	<0.50	<0.50		<0 50	<1.0	<10	<1 0	<1.0	<1.0	<1.0		<1 0	<1.0		<1.0	<0.50	<1 0
W-17B	UG/L	5/12/2010	54	<0.50	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1 0	<1.0		<1.0	<0.50	<1 0
W-17B	UG/L	8/5/2010	<50	<0.50	<0.50	<0.50		<0 50	<1.0	<10	<1 0	<1.0	<1.0	<1.0		<1 0	<1.0		<1.0	<0.50	<1 0
W-17B	UG/L	11/3/2010	<50	<0.50	<0.50	<0.50	<1.0	<0 50	<1.0	<10	<1 0	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	<0.50	<1 0
W-17B	UG/L	2/2/2011	<50	<0.50	<0.50	<0.50	<1.0	<0 50	<1.0	<10	<1 0	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	<0.50	<1 0
W-17B	UG/L	4/20/2011	<50	<0.50	<0.50	<0.50	<1.0	<0 50	<1.0	35	<1.0	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	<0.50	<1 0
W-17B	UG/L	8/24/2011	<50	<0.50	<0.50	<0.50	<1.0	<0 50	<1.0	<10	<1 0	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	<0.50	<1 0
W-17B	UG/L	11/9/2011	<50	<0.50	<0.50	<0.50	<1.0	<0 50	<1.0	<10	<1 0	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	<0.50	<1 0
W-17B	UG/L	2/7/2012	<50	<0.50	<0.50	<0.50	<1.0	<0 50	<1.0	14	<1 0	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	<0.50	<1 0
W-17B	UG/L	5/4/2012	<50	<0.50	<0.50	<0.50	<1.0	<0 50	<1.0	10	<1 0	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	<0.50	<1 0
W-17B	UG/L	8/23/2012	<50	<0.50	<0.50	<0.50	<1.0	<0 50	<1.0	<10	<1 0	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	<0.50	<1 0
W-17B	UG/L	11/1/2012	<50	<0.50	<0.50	<0.50	<1.0	<0 50	<1.0	24	<1.0	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	<0.50	<1 0
W-17C	UG/L	2/14/2008	36	<2	<2	<2	<2	<2	<5	25	<5	<2	<2	<2		<2	<2		<2	<2	<5
W-17C	UG/L	1/16/2009	29	<2	<2	<2	<2	<2	<5	21	<5	<2	<2	<2		<2	1.2		<2	<2	<5
W-17C	UG/L	4/23/2009	<50	<2	<2	<2	<2	<2	<5	18	<5	<2	<2	<2		<2	<2		<2	<2	<5
W-17C	UG/L	3/4/2010	<50	<0.50	<0.50	<0.50		<0 50	<1.0	<10	<1 0	<1.0	<1.0	<1.0		<1 0	<1.0		<1.0	<0.50	<1 0
W-17C	UG/L	5/12/2010	<50	<0.50	<0.50	<0.50		<0 50	<1.0	<10	<1 0	<1.0	<1.0	<1.0		<1 0	<1.0		<1.0	<0.50	<1 0
W-17C	UG/L	8/5/2010	<50	<0.50	<0.50	<0.50		<0 50	<1.0	<10	<1 0	<1.0	<1.0	<1.0		<1 0	<1.0		<1.0	<0.50	<1 0
W-17C	UG/L	11/3/2010	<50	<0.50	<0.50	<0.50	<1.0	<0 50	<1.0	<10	<1 0	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	<0.50	<1 0
W-17C	UG/L	2/2/2011	<50	<0.50	<0.50	<0.50	<1.0	<0 50	<1.0	<10	<1 0	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	<0.50	<1 0
W-17C	UG/L	4/20/2011	<50	<0.50	<0.50	<0.50	<1.0	<0 50	<1.0	31	<1 0	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	<0.50	<1 0
W-17C	UG/L	8/24/2011	<50	<0.50	<0.50	<0.50	<1.0	<0 50	<1.0	<10	<1 0	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	<0.50	<1 0
W-17C	UG/L	11/9/2011	<50	<0.50	<0.50	<0.50	<1.0	<0 50	<1.0	<10	<1 0	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	<0.50	<1 0
W-17C	UG/L	2/7/2012	<50	<0.50	<0.50	<0.50	<1.0	<0 50	<1.0	10	<1 0	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	<0.50	<1 0
W-17C	UG/L	5/4/2012	<50	<0.50	<0.50	<0.50	<1.0	<0 50	<1.0	11	<1 0	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	<0.50	<1 0
W-17C	UG/L	8/23/2012	<50	<0.50	<0.50	<0.50	<1.0	<0 50	<1.0	<10	<1 0	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	<0.50	<1 0
W-17C	UG/L	11/1/2012	<50	<0.50	<0.50	<0.50	<1.0	<0 50	<1.0	11	<1 0	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	<0.50	<1 0
W-3A	UG/L	1/13/1998	4300000	150000	<6000	35000			<200000												
W-3A	UG/L	8/20/1998	1100	220	<25	33			440		350	<25	<25	<25		<25	<25		<25	<25	<50
W-3A	UG/L	1/28/1999	690	160	<50	<50			340		240	<50	<50	<50		<50	<50		<50	<50	<100
W-3A	UG/L	7/19/1999	5400	120	<20	<20			380		<200	37	<20	<20		<20	<20		<20	<10	<10
W-3A	UG/L	1/13/2000	14000	140	<10	<10			210		<100	<10	<10	<10		<10	<10		<10	<5	7
W-3A	UG/L	8/4/2000	3400	170	<20	8.4			220		<50	2	2	<2		<2	<20		<20	<1	5
W-3A	UG/L	2/8/2001	2700	34	<1	2.9			12		63	13	4.4	<1		<1	<1		<1	<0.5	1.7
W-3A	UG/L	7/26/2001	3400	42	<1	1.7			6.2		11	15	<1	<1		<1	<1		<1	<0.5	27
W-3A	UG/L	5/6/2002	NS	NS	NS	NS			NS	NS	NS	NS	NS	NS		NS	NS		NS	NS	NS
W-3A	UG/L	9/25/2002	NS	NS	NS	NS			NS	NS	NS	NS	NS	NS		NS	NS		NS	NS	NS
W-3A	UG/L	2/16/2006	306	<1	<5	<5	<5	<5	6.2	16	<5	18	16	<5		<5	<5		<5	<5	<5
W-3A	UG/L	8/3/2006	39000	<2	<2	<2	<2	<2	9	<50	38	<2	<2	<2		<2	<2		<2	<2	<5
W-3A	UG/L	11/9/2006	8100	<2	<2	<2	<2	<2	11	<50	37	6.4	9.5	<2		<2	<2		<2	<2	<5
W-3A	UG/L	2/8/2007	1400	<2	<2	<2	<2	<2	8.4	<50	30	3.9	6.1	<2		<2	<2		<2	<2	<5
W-3A	UG/L	5/10/2007	14000	0.66	<2	<2	<2	<2	7.8	23	16	2.3	3.6	<2		<2	<2		<2	<2	<5
W-3A	UG/L	8/9/2007	1900	0.79	<2	<2	<2	0.34	9.8	26	14	2	2.3	<2		<2	<2		<2	<2	<5
W-3A	UG/L	11/7/2007	1500	0.62	<0.36	<0.25	<0.6	<0.3	9.7	26	<0.41	0.64	0.67	<0.32		<0.27	<0.32		<0.27	<0.28	<0.3
W-3A	UG/L	2/7/2008	180	<2	<2	<2	<2	<2	10	<50	<5	<2	<2	<2		<2	<2		<2	<2	<5
W-4	UG/L	3/1/1990		120	<0.5	19								<0.5		<0 5	3.2		8.3	<0.5	<0 5
W-4	UG/L	4/1/1990		28	1.4	4.8								<1		<1	0.81		2.2	<1	4.3
W-4	UG/L	12/18/1996	420	80	<5	<5			<10		<5	<5	<5	<5		<5	<5		<5	<5	<10
W-4	UG/L	1/14/1998	920	120	<5	<5			<5		<10	<5	<5	<5		<5	<5		<5	<5	16
W-4	UG/L	8/20/1998	500	57	<5	<5			18		<10	<5	<5	<5		<5	<5		<5	<5	9.8
W-4	UG/L	1/29/1999	460	55	<5	<5			20		<10	<5	<5	<5		<5	<5		<5	<5	11
W-4	UG/L	7/19/1999	710	72	<2	<2			<2		<20	<2	<2	<2		<2	<2		<2	<1	<1
W-4	UG/L	1/13/2000	660	49	<1	<1			<1		<10	<1	<1	<1		<1	1.3		<1	<0.5	13
W-4	UG/L	8/3/2000	<500	47	<1	<1					<10	<1	<1	<1		1.2	<1		<1	<0.5	12
W-4	UG/L	2/8/2001	<500	42	<1	<1			<1		<10	<1	<1	<1		<1	<1		1.1	0.67	7
W-4	UG/L	7/26/2001	320	42	<1	<1			<1		<10	<1	<1	<1		<1	<1		1	<0.5	<0.5
W-4	UG/L	5/8/2002	250	33	<1	<1			<1	60000	<10	<1	<1	<1		2	<1		1.3	<0.5	5.2
W-4	UG/L	9/25/2002	290	62	<1	<1			<1	45000	<1	<1	<1	<1		3.8	<1		2	<0.5	<0.5
W-4	UG/L	7/1/2004	350	30	2.6	1.9	0.66	<0.5	<5	<100	<5	<5	<5	<5		1J	3J		2J	<5	11
W-4	UG/L	10/6/2005	350	31	<1	<1	<1	<1	<1	47	<10	<1	<1	<1		<1	6.4		1.7	<0.5	1.3
W-4	UG/L	2/15/2006	501	43	<5	<5	<5	<5	<1	38	<5	<5	<5	<5		<5	2.8		2.5	<5	2.4
W-4	UG/L	8/3/2006	2800	3.5	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		<2	4.5		<2	<2	<5
W-4	UG/L	11/9/2006	230	6.1	<2	<2	<2</														

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC
W-4	UG/L	1/19/2009	140	0.51	<2	<2	<2	<2	<5	47	0.43	<2	<2	<2		<2	7.6		1	<2	1.8
W-4	UG/L	4/27/2009	92	<2	<2	<2	<2	<2	<5	34	<5	<2	<2	<2		<2	7.3		0.61	<2	1.9
W-4	UG/L	3/5/2010	600	1.5	<0.50	<0.50		<0 50	<1.0	<10	<1 0	<1.0	<1.0	<1.0		<1 0	3.7		<1.0	<0.50	7.4
W-4	UG/L	5/13/2010	700	4.3	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1 0	3.1		<1.0	<0.50	5.4
W-4	UG/L	8/6/2010	570	68	<0.50	<0.50		<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1 0	4.0		<1.0	<0.50	7.2
W-4	UG/L	11/4/2010	980	180	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	<0.50	4.8
W-4	UG/L	2/8/2011	1800	480	<0.50	1.2	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1 0	1.0	<1.0	<1.0	<0.50	8.6
W-4	UG/L	4/14/2011	1400	460	0.59	1.2	<1.0	<0.50	1.1	38	<1.0	<1.0	<1.0	<1.0	<1.0	<1 0	1.2	<1.0	<1.0	<0.50	11
W-4	UG/L	8/25/2011	840	190	<0.50	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	<0.50	1.8
W-4	UG/L	11/14/2011	1200	390	<2.5	0.76	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	<0.50	<1 0
W-4	UG/L	2/6/2012	1100	410	<0.50	0.79	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	<0.50	6.2
W-4	UG/L	5/7/2012	910	140	<0.50	<0.50	<1.0	<0.50	<1.0	21	<1.0	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	<0.50	4.1
W-4	UG/L	8/27/2012	910	<0.50	<0.50	<0.50	<1.0	<0 50	1.9	24	<1.0	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	<0.50	2.8
W-4	UG/L	11/5/2012	<50	<0.50	<0.50	<0.50	<1.0	<0 50	<1.0	<10	6.3	2.5	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	<0.50	<1 0
W-7	UG/L	8/4/2000	<500	<0.5	<1	<1			<1		<1	<1	<1	<1		<1	<0.5		1.2	<1	<0.5
W-7	UG/L	2/8/2001	<500	<0.5	<1	<1			<1		<10	<1	<1	<1		<1	<1		<1	<0.5	<0.5
W-7	UG/L	7/26/2001	<100	<0.5	<1	<1			<1		<10	<1	<1	<1		<1	<1		<1	<0.5	<0.5
W-7	UG/L	5/7/2002	<100	<0.5	<1	<1			<1	<10000	<10	<1	<1	<1		<1	<1		<1	<0.5	<0.5
W-7	UG/L	9/24/2002	<100	<0.5	<1	<1			<1	<10000	<10	<1	<1	<1		<1	<1		<1	<0.5	<0.5
W-7	UG/L	10/7/2005	<100	<0.5	<1	<1	<1	<1	<1	<10	<10	<1	<1	<1		<1	<1		<1	<0.5	<0.5
W-7	UG/L	2/16/2006	60 9	<1	<5	<5	<5	<5	<1	<10	<5	1.1	<5	<5		<5	<5		<5	<5	<5
W-7	UG/L	8/4/2006	<50	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		<2	<2		<2	<2	<5
W-7	UG/L	11/10/2006	<50	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		<2	<2		<2	<2	<5
W-7	UG/L	2/9/2007	<50	<2	<2	<2	2.6	<2	<5	<50	<5	2.2	<2	<2		<2	<2		<2	<2	<5
W-7	UG/L	5/8/2007	31	0.41	0.45	0.87	1.4	0.75	<5	<50	0.9	1.4	0.35	<2		<2	<2		0.41	<2	<5
W-7	UG/L	8/10/2007	<50	<2	<2	0.25	<2	<2	<5	<50	<5	<2	<2	<2		<2	<2		<2	<2	<5
W-7	UG/L	11/6/2007	<30	<0.28	<0.36	<0.25	<0.6	<0.3	<0.32	<4.9	<0.41	<0.23	<0 26	<0.32		<0.27	<0.32		<0.27	<0.28	<0 3
W-7	UG/L	2/4/2008	<50	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		<2	<2		<2	<2	<5
W-7	UG/L	1/13/2009	<50	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		<2	<2		<2	<2	<5
W-7	UG/L	4/21/2009	<50	0.31	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		<2	<2		1.7	<2	<5
W-7	UG/L	3/4/2010	65	<0.50	<0.50	<0.50		<0 50	<1.0	<10	<1 0	<1.0	<1.0	<1.0		<1 0	<1.0		2.0	<0.50	<1 0
W-7	UG/L	5/17/2010	60	<0.50	<0.50	<0.50		0.51	<1.0	<10	2.3	<1.0	<1.0	<1.0		<1 0	<1.0		1.9	<0.50	<1 0
W-7	UG/L	8/4/2010	<50	<0.50	<0.50	<0.50		<0 50	<1.0	<10	<1 0	<1.0	<1.0	<1.0		<1 0	<1.0		2.6	<0.50	<1 0
W-7	UG/L	8/4/2010	<50	<0.50	<0.50	<0.50		<0 50	<1.0	<10	<1 0	<1.0	<1.0	<1.0		<1 0	<1.0		2.6	<0.50	<1 0
W-7	UG/L	11/3/2010	<50	<0.50	<0.50	<0.50	<1.0	<0 50	<1.0	<10	<1 0	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	2.5	<0.50	<1 0
W-7	UG/L	2/2/2011	<50	<0.50	<0.50	<0.50	<1.0	<0 50	<1.0	<10	<1 0	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	1.4	<0.50	<1 0
W-7	UG/L	4/14/2011	<50	0.57	0.55	0.51	<1.0	0.57	<1.0	<10	<1 0	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	2.8	<0.50	<1 0
W-7	UG/L	8/24/2011	<50	0.52	0.50	0.53	<1.0	0.53	<1.0	<10	<1 0	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	1.8	<0.50	<1 0
W-7	UG/L	8/24/2011	<50	<0.50	<0.50	<0.50	<1.0	0.51	<1.0	<10	<1 0	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	1.8	<0.50	<1 0
W-7	UG/L	11/10/2011	<50	<0.50	<0.50	0.56	<1.0	0.61	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	1.8	<0.50	<1 0
W-7	UG/L	2/8/2012	<50	<0.50	<0.50	0.57	<1.0	0.59	<1.0	<10	<1 0	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	1.6	<0.50	<1 0
W-7	UG/L	5/9/2012	57	<0.50	<0.50	<0.50	<1.0	<0 50	<1.0	<10	<1 0	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	1.6	<0.50	<1 0
W-7	UG/L	8/29/2012	<50	<0.50	<0.50	<0.50	<1.0	<0 50	<1.0	<10	<1 0	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	<0.50	<1 0
W-7	UG/L	11/7/2012	<50	0.53	<0.50	0.64	<1.0	0.57	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	<0.50	<1 0
W-8	UG/L	8/4/2000	<500	2.8	<4.6	<1			<1		<1	<1	<1	<1		<1	<1		<1	<0.5	<0.5
W-8	UG/L	2/6/2001	NS	NS	NS	NS			NS		NS	NS	NS	NS		NS	NS		NS	NS	NS
W-8	UG/L	7/26/2001	180	0.67	<1	<1			<1		<1	<1	<1	<1		<1	<1		<1	<5	<0.5
W-8	UG/L	5/7/2002	180	0.51	<1	<1			<1	<10000	<10	<1	<1	<1		<1	<1		<1	<5	<0.5
W-8	UG/L	9/24/2002	<100	0.64	<1	<1			<1	<10000	<10	<1	<1	<1		<1	<1		<1	<5	<0.5
W-8	UG/L	7/1/2004	390	1.9J	1.8	0.72	0.92	<0.5	<5	<100	<5	<5	<5	<5		<5	<5		<5	<5	<5
W-8	UG/L	10/6/2005	220	0.52	<1	<1	<1	<1	<1	<10	<10	<1	<1	<1		<1	<1		<1	<0.5	<0.5
W-8	UG/L	2/16/2006	192	<1	<5	<5	<5	<5	<1	<10	<5	<5	<5	<5		<5	<5		<5	<5	<5
W-8	UG/L	8/4/2006	130	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		<2	<2		<2	<2	<5
W-8	UG/L	11/10/2006	210	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		<2	<2		<2	<2	<5
W-8	UG/L	2/9/2007	130	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		<2	<2		<2	<2	<5
W-8	UG/L	5/8/2007	110	0.49	0.73	0.33	<2	<2	<5	<50	<5	0 23	<2	<2		<2	<2		<2	<2	<5
W-8	UG/L	8/7/2007	170	0.49	0.82	0.44	<2	0.38	<5	<50	<5	0.3	<2	<2		<2	<2		<2	<2	<5
W-8	UG/L	11/6/2007	160	0.52	0.75	0.4	<0.6	0.3	<0.32	7.5	<0.41	<0.23	<0 26	<0.32		<0.27	<0.32		<0.27	<0.28	<0 3
W-8	UG/L	2/4/2008	160	0.46	0.81	0.39	<2	<2	<5	<50	<5	0 25	<2	<2		<2	<2		<2	<2	<5
W-8	UG/L	1/13/2009	120	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		<2	<2		<2	<2	<5
W-8	UG/L	4/21/2009	150	0.45	0.82	0.37	<2	<2	<5	<50	<5	<2	<2	<2		<2	<2		<2	<2	<5
W-8	UG/L	3/4/2010	220	<0.50	0.85	<0.50		<0 50													

Location	Unit	Date	TPH-g	B	T	E	m/p-X	o-X	MTBE	TBA	NAP	1,2,4-TMB	1,3,5-TMB	PCE	TCE	t1,2-DCE	c1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	VC
W-8	UG/L	11/10/2011	110	<0.50	0.64	<0.50	<1.0	<0.50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	<0.50	<1 0
W-8	UG/L	2/7/2012	90	<0.50	0.73	<0.50	<1.0	<0 50	<1.0	<10	<1 0	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	<0.50	<1 0
W-8	UG/L	5/10/2012	180	<0.50	0.87	<0.50	<1.0	<0 50	<1.0	<10	2.9	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	<0.50	<1 0
W-8	UG/L	8/29/2012	190	<0.50	<0.50	<0.50	<1.0	<0 50	<1.0	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	<0.50	<1 0
W-8	UG/L	11/7/2012	62	0.50	0.75	<0.50	<1.0	<0 50	<1.0	<10	<1 0	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	<0.50	<1 0
W-9	UG/L	11/7/2006	<50	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		<2	<2		<2	<2	<5
W-9	UG/L	2/6/2007	67	<2	<2	<2	<2	<2	<5	<50	<5	<2	<2	<2		<2	<2		<2	<2	<5
W-9	UG/L	5/9/2007	50	<2	<2	<2	<2	<2	<5	17	<5	<2	<2	<2		<2	2		<2	<2	<5
W-9	UG/L	8/7/2007	38	<2	<2	<2	<2	<2	<5	22	<5	<2	<2	<2		0.31	3		<2	<2	<5
W-9	UG/L	11/6/2007	<30	<0.28	<0.36	<0.25	<0.6	<0.3	<0.32	19	<0.41	<0.23	<0 26	<0.32		0.31	3.8		<0.27	<0.28	<0 3
W-9	UG/L	2/5/2008	<50	<2	<2	<2	<2	<2	<5	23	0.5	<2	<2	<2		0.3	3.4		<2	<2	<5
W-9	UG/L	1/15/2009	46	<2	<2	<2	<2	<2	<5	18	<5	<2	<2	<2		<2	3.2		<2	<2	<5
W-9	UG/L	4/23/2009	36	<2	<2	<2	<2	<2	<5	18	<5	<2	<2	<2		<2	2.6		<2	<2	<5
W-9	UG/L	3/3/2010	<50	<0.50	<0.50	<0.50		<0 50	<1.0	<10	<1 0	<1.0	<1.0	<1.0		<1 0	1.9		<1.0	<0.50	<1 0
W-9	UG/L	5/12/2010	80	<0.50	<0.50	<0.50		<0 50	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1 0	2.8		<1.0	<0.50	<1 0
W-9	UG/L	8/4/2010	67	<0.50	<0.50	<0.50		<0 50	<1.0	<10	<1 0	<1.0	<1.0	<1.0		<1 0	4.0		<1.0	<0.50	<1 0
W-9	UG/L	11/3/2010	87	<0.50	<0.50	<0.50	<1.0	<0 50	<1.0	<10	<1 0	<1.0	<1.0	<1.0	<1.0	<1 0	3.2	<1.0	<1.0	<0.50	<1 0
W-9	UG/L	2/2/2011	<50	<0.50	<0.50	<0.50	<1.0	<0 50	<1.0	<10	<1 0	<1.0	<1.0	<1.0	<1.0	<1 0	1.5	<1.0	<1.0	<0.50	<1 0
W-9	UG/L	4/14/2011	<50	<0.50	<0.50	<0.50	<1.0	<0 50	<1.0	<10	<1 0	<1.0	<1.0	<1.0	<1.0	<1 0	5.9	<1.0	<1.0	<0.50	<1 0
W-9	UG/L	8/24/2011	<50	<0.50	<0.50	<0.50	<1.0	<0 50	<1.0	<10	<1 0	<1.0	<1.0	<1.0	<1.0	<1 0	2.4	<1.0	<1.0	<0.50	<1 0
W-9	UG/L	11/10/2011	<50	<0.50	<0.50	<0.50	<1.0	<0 50	<1.0	<10	<1 0	<1.0	<1.0	<1.0	<1.0	<1 0	2.1	<1.0	<1.0	<0.50	<1 0
W-9	UG/L	2/8/2012	59	<0.50	<0.50	<0.50	<1.0	<0 50	<1.0	13	<1 0	<1.0	<1.0	<1.0	<1.0	<1 0	1.8	<1.0	<1.0	<0.50	<1 0
W-9	UG/L	5/9/2012	89	<0.50	<0.50	<0.50	<1.0	<0 50	<1.0	29	<1 0	<1.0	<1.0	<1.0	<1.0	<1 0	2.3	<1.0	<1.0	<0.50	<1 0
W-9	UG/L	8/28/2012	70	<0.50	<0.50	<0.50	<1.0	<0 50	<1.0	<10	<1 0	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	<0.50	<1 0
W-9	UG/L	11/7/2012	<50	<0.50	<0.50	<0.50	<1.0	<0 50	<1.0	<10	<1 0	<1.0	<1.0	<1.0	<1.0	<1 0	<1.0	<1.0	<1.0	<0.50	<1 0

NOTES:
PCE - Tetrachloroethylene
TCE - Trichloroethylene
c1,2-DCE - cis-1,2-Dichloroethene
t1,2-DCE - trans-1,2-Dichloroethene
1,1-DCE - 1,1-Dichloroethene
1,2-DCA - 1,2-Dichloroethane
1,3,5-TMB - 1,3,5-Trimethylbenzene
1,2,4-TMB - 1,2,4-Trimethylbenzene
VC - Vinyl Chloride
B- Benzene
T - Toluene
E - Ethylbenzene
X - Xylenes, total
nBUT - n-Butylbenzene
sBUT - sec-Butylbenzene
tBUT - tert-Butylbenzene
nPRO - n-Propylbenzene
1,1 DCA - 1,1-Dichloroethane
ISO-P - Isopropylbenzene
MC - Methylene Chloride
NAP - Naphthalene
TRIM - Trichlorofluoromethane
PMXY - p/m-Xylenes
OXYL - o-Xylene
DIPE - Diisopropyl Ether (DIPE)
MTBE - Methyl-tert-Butyl Ether (MTBE)
TBA - tert-Butyl Alcohol (TBA)
ND - Not Detected above laboratory detection limits
UG/L - Micrograms per litre
NA - Information not available

Table IV
Summary of Field Test Parameters
Former Powerine Refinery
Santa Fe Springs, California
4Q2012

Well ID	Sample Date	pH (SU)	DO (mg/L)	ORP (mV)
MW-104A	12/18/2009	7.31	5.31	3
MW-104A	3/3/2010	6.93	1.65	66
MW-104A	5/11/2010	8.06	NM	19
MW-104A	8/4/2010	7.65	2.32	205
MW-104A	11/3/2010	8.06	2.00	131
MW-104A	2/2/2011	8.46	3.05	136.4
MW-104A	4/14/2011	8.10	2.85	128.5
MW-104A	8/24/2011	7.53	4.47	19.6
MW-104A	11/10/2011	7.38	5.47	67
MW-104A	2/9/2012	8.79	2.42	-14.5
MW-104A	5/9/2012	8.18	4.36	-39.3
MW-104A	8/27/2012	7.69	1.96	51.9
MW-104A	11/6/2012	NM	NM	NM
MW-106A	12/17/2009	7.25	7.29	-112
MW-106A	3/5/2010	6.73	4.71	116
MW-106A	5/13/2010	8.06	7.90	-38
MW-106A	8/6/2010	8.05	4.52	210
MW-106A	11/4/2010	8.23	3.09	77
MW-106A	2/3/2011	NM	NM	NM
MW-106A	4/19/2011	NM	NM	NM
MW-106A	8/25/2011	7.67	2.98	-28.1
MW-106A	11/14/2011	7.03	4.74	33
MW-106A	2/3/2012	NM	NM	NM
MW-106A	8/24/2012	NM	NM	NM
MW-106A	11/6/2012	NM	NM	NM
MW-107A	12/17/2009	7.20	6.99	-276
MW-107A	3/5/2010	8.70	1.81	-307
MW-107A	5/13/2010	8.30	NM	-370
MW-107A	8/6/2010	8.10	3.25	-280
MW-107A	11/4/2010	8.16	2.04	-245
MW-107A	2/3/2011	8.49	3.42	-338
MW-107A	4/19/2011	8.02	1.93	-276.8
MW-107A	8/25/2011	7.82	2.68	-216.7
MW-107A	11/14/2011	7.19	3.73	-161.3
MW-107A	1/31/2012	8.88	2.6	-240
MW-107A	5/8/2012	8.40	2.34	-273.6
MW-107A	8/24/2012	8.12	2.89	-226.7
MW-107A	11/6/2012	8.27	2.38	-236.7
MW-503B	12/15/2009	6.92	7.78	-137

Table IV
Summary of Field Test Parameters
Former Powerine Refinery
Santa Fe Springs, California
4Q2012

Well ID	Sample Date	pH (SU)	DO (mg/L)	ORP (mV)
MW-503B	3/8/2010	7.33	3.38	-96
MW-503B	5/17/2010	8.18	1.79	-69
MW-503B	8/9/2010	7.60	2.72	147
MW-503B	11/8/2010	7.62	2.93	7
MW-503B	2/4/2011	7.96	2.16	-46
MW-503B	4/15/2011	7.61	1.74	-46.4
MW-503B	8/29/2011	7.50	2.57	-96.1
MW-503B	11/16/2011	6.76	3.01	-41.3
MW-503B	1/31/2012	8.50	3.06	-150.6
MW-503B	5/8/2012	7.73	2.46	-145.0
MW-503B	8/30/2012	8.05	2.50	-13.0
MW-503B	11/5/2012	8.00	2.06	96.5
W-1	12/15/2009	7.62	7.10	-39
W-1	3/5/2010	7.51	3.15	-111
W-1	5/13/2010	8.07	2.02	-197
W-1	8/6/2010	7.52	3.22	-22
W-1	11/5/2010	8.13	2.75	38
W-1	2/4/2011	8.18	4.84	-63.7
W-1	4/14/2011	7.65	1.94	37.3
W-1	8/26/2011	7.47	3.16	-86
W-1	11/14/2011	7.08	2.9	-75.9
W-1	2/6/2012	7.99	2.87	-79.4
W-1	5/7/2012	7.85	3.03	-62.4
W-1	8/27/2012	7.90	2.69	-60.4
W-1	11/5/2012	7.82	2.47	-40.0
W-4	12/15/2009	8.27	9.40	21
W-4	3/5/2010	7.09	3.41	-101
W-4	5/13/2010	8.00	3.87	-66
W-4	8/6/2010	7.74	3.48	16
W-4	11/4/2010	7.75	3.50	45
W-4	2/8/2011	7.67	5.53	-3.5
W-4	4/14/2011	7.79	4.47	107.8
W-4	8/25/2011	7.54	4.75	-92.5
W-4	11/14/2011	6.88	4.49	-47.3
W-4	2/6/2012	8.36	3.7	-53.2
W-4	5/7/2012	8.10	3.24	-54
W-4	8/27/2012	8.08	3.84	11.7
W-4	11/5/2012	8.18	3.95	20.2
W-8	12/18/2009	10.11	7.07	-230

Table IV
Summary of Field Test Parameters
Former Powerine Refinery
Santa Fe Springs, California
4Q2012

Well ID	Sample Date	pH (SU)	DO (mg/L)	ORP (mV)
W-9	3/3/2010	7.53	5.66	69
W-9	5/12/2010	8.07	7.15	-175
W-9	8/4/2010	7.36	3.36	-60
W-9	4/5/2011	7.71	4.07	82.3
W-9	8/24/2011	7.62	4.9	-4.9
W-9	11/10/2011	NM	NM	NM
W-9	2/8/2012	8.32	3.95	61.8
W-9	5/9/2012	7.77	3.69	-49.5
W-9	8/28/2012	7.70	2.61	36.6
W-9	11/7/2012	NM	NM	NM
W-10	12/18/2009	7.21	6.89	-97
W-10	3/8/2010	NM	NM	NM
W-10	5/17/2010	NM	NM	NM
W-10	8/9/2010	NM	NM	NM
W-10	11/3/2010	7.53	3.39	-10
W-10	11/8/2010	NM	NM	NM
W-10	2/2/2011	7.83	3.57	41.6
W-10	2/8/2011	7.28	5.51	-103
W-10	4/15/2011	NM	NM	NM
W-10	8/29/2011	7.14	2.7	-130.2
W-10	11/10/2011	NM	NM	NM
W-10	2/8/2012	NM	NM	NM
W-10	5/10/2012	NM	NM	NM
W-10	8/28/2012	NM	NM	NM
W-10	11/7/2012	NM	NM	NM
W-11	12/8/2010	NM	NM	NM
W-11	2/4/2011	7.67	5.62	-119
W-11	4/15/2011	7.58	1.68	-77
W-11	8/29/2011	7.35	2.2	-125.7
W-11	11/14/2011	6.93	2.63	-148.6
W-11	2/8/2012	8.38	3.3	45.6
W-11	5/10/2012	7.84	2.75	-76.5
W-11	8/28/2012	7.50	1.56	-122.5
W-11	11/8/2012	7.92	1.75	24.7
W-12	12/18/2009	6.99	6.96	0
W-12	3/4/2010	7.53	3.15	-63
W-12	5/12/2010	7.87	NM	-180
W-12	8/5/2010	7.61	2.65	-100
W-12	11/4/2010	7.88	2.64	7

Table IV
Summary of Field Test Parameters
Former Powerine Refinery
Santa Fe Springs, California
4Q2012

Well ID	Sample Date	pH (SU)	DO (mg/L)	ORP (mV)
W-12	2/3/2011	8.28	2.85	-99
W-12	4/19/2011	7.77	2.10	15.2
W-12	8/25/2011	7.50	2.78	-58.5
W-12	11/14/2011	6.93	3.77	-34.7
W-12	2/8/2012	8.13	2.57	-113
W-12	5/9/2012	7.89	3.22	-74.5
W-12	8/30/2012	7.63	2.15	-98.7
W-12	11/8/2012	7.88	2.31	-42.6
W-14A	12/15/2009	7.65	7.76	-23
W-14A	3/1/2010	6.61	4.09	58
W-14A	5/10/2010	8.63	2.74	2
W-14A	8/2/2010	8.02	3.12	145
W-14A	11/1/2010	8.30	2.87	46
W-14A	1/31/2011	8.30	13.16	185.4
W-14A	4/4/2011	8.29	4.81	89.6
W-14A	8/22/2011	7.87	10.15	22.8
W-14A	11/7/2011	7.40	5.23	151.6
W-14A	1/30/2012	8.06	1.48	2.6
W-14A	8/20/2012	8.10	3.44	-76.9
W-14A	10/29/2012	8.23	3.01	22.5
W-14B	12/15/2009	8.37	7.79	97
W-14B	3/1/2010	7.72	2.60	-5
W-14B	5/10/2010	8.43	3.00	-172
W-14B	8/2/2010	7.80	4.60	33
W-14B	11/1/2010	8.13	3.37	37
W-14B	1/31/2011	8.17	19.82	194
W-14B	4/4/2011	8.27	5.95	82.6
W-14B	8/22/2011	7.95	7.90	22.7
W-14B	11/7/2011	7.22	4.92	67.8
W-14B	1/30/2012	8.70	2.90	-133.7
W-14B	8/20/2012	8.27	4.00	-30.3
W-14B	10/29/2012	8.21	3.49	-18.2
W-14C	12/15/2009	8.24	8.57	77
W-14C	3/1/2010	7.22	2.43	188
W-14C	5/10/2010	8.17	0.80	-77
W-14C	8/2/2010	7.60	3.55	128
W-14C	11/1/2010	7.89	3.15	49
W-14C	1/31/2011	7.88	10.85	188
W-14C	4/4/2011	7.98	3.27	51.3

Table IV
Summary of Field Test Parameters
Former Powerine Refinery
Santa Fe Springs, California
4Q2012

Well ID	Sample Date	pH (SU)	DO (mg/L)	ORP (mV)
W-14C	8/22/2011	7.76	4.24	-3.7
W-14C	11/7/2011	7.33	7.47	59.2
W-14C	1/30/2012	8.75	3.65	-65.2
W-14C	5/1/2012	8.18	4.07	41.5
W-14C	8/20/2012	8.18	4.95	5.1
W-14C	10/29/2012	8.16	3.77	-20.0
W-15A	12/14/2009	7.31	9.15	85
W-15A	3/2/2010	7.12	2.67	202
W-15A	5/10/2010	7.90	NM	-228
W-15A	8/2/2010	7.39	1.96	-145
W-15A	11/1/2010	7.67	2.85	32
W-15A	2/1/2011	7.89	2.05	-33
W-15A	4/5/2011	8.00	2.60	-81.7
W-15A	8/23/2011	7.47	4.96	-148.7
W-15A	11/8/2011	(FPPH)	(FPPH)	(FPPH)
W-15A	2/2/2012	(FPPH)	(FPPH)	(FPPH)
W-15A	5/2/2012	8.06	3.26	-26.4
W-15A	8/21/2012	(FPPH)	(FPPH)	(FPPH)
W-15A	10/30/2012	(FPPH)	(FPPH)	(FPPH)
W-15B	12/14/2009	7.39	7.44	-58
W-15B	3/2/2010	7.61	2.39	94
W-15B	5/11/2010	8.09	4.36	-15
W-15B	8/3/2010	7.74	3.42	107
W-15B	11/2/2010	8.06	3.18	40
W-15B	2/1/2011	8.15	4.58	286
W-15B	4/5/2011	8.10	2.92	62.4
W-15B	8/23/2011	7.56	3.85	-2.1
W-15B	11/10/2011	7.10	3.07	28.3
W-15B	2/2/2012	8.17	2.31	-69.2
W-15B	5/2/2012	8.00	3.41	-11
W-15B	8/20/2012	8.10	5.08	64.6
W-15B	10/30/2012	8.21	2.80	123.6
W-15C	12/14/2009	7.16	7.18	-53
W-15C	3/2/2010	7.33	2.27	148
W-15C	5/11/2010	8.16	4.73	-21
W-15C	8/3/2010	7.60	2.72	108
W-15C	11/2/2010	7.55	2.40	62
W-15C	2/1/2011	7.81	4.58	123.7
W-15C	4/5/2011	7.92	2.85	109

Table IV
Summary of Field Test Parameters
Former Powerine Refinery
Santa Fe Springs, California
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Well ID	Sample Date	pH (SU)	DO (mg/L)	ORP (mV)
W-15C	8/23/2011	7.54	4.32	-2.4
W-15C	11/8/2011	7.32	6.00	119.4
W-15C	1/31/2012	8.72	3.11	-60.3
W-15C	5/2/2012	8.00	3.50	6
W-15C	8/21/2012	8.12	2.90	125.7
W-15C	10/30/2012	8.13	2.55	99.3
W-16A	12/16/2009	7.62	6.90	-62
W-16A	3/5/2010	7.03	3.47	-5
W-16A	5/14/2010	8.28	2.23	-54
W-16A	8/9/2010	7.98	2.65	106
W-16A	11/5/2010	8.03	6.15	48
W-16A	2/7/2011	7.82	4.09	249
W-16A	4/18/2011	7.88	4.00	94.9
W-16A	8/26/2011	7.73	4.11	-73.4
W-16A	11/8/2011	7.07	4.36	77.6
W-16A	2/3/2012	8.49	3.67	-70.0
W-16A	5/3/2012	7.86	4.09	50.0
W-16A	8/22/2012	7.77	2.47	-77.5
W-16A	10/31/2012	8.15	4.03	113.1
W-16B	12/16/2009	8.23	7.61	-184
W-16B	3/8/2010	8.15	3.20	-236
W-16B	5/14/2010	8.62	0.77	-310
W-16B	8/9/2010	8.01	2.88	-217
W-16B	11/5/2010	8.30	2.68	-119
W-16B	2/7/2011	8.12	3.54	-297
W-16B	4/18/2011	8.47	2.56	-247
W-16B	8/26/2011	8.01	2.72	-217.4
W-16B	11/8/2011	6.89	8.68	-63.8
W-16B	2/3/2012	9.21	2.55	-206.7
W-16B	5/3/2012	8.74	3.06	-194.3
W-16B	8/22/2012	8.62	2.90	-200.0
W-16B	10/31/2012	8.62	3.88	-189.5
W-16C	12/16/2009	8.15	7.12	-206
W-16C	3/8/2010	8.33	3.64	-237
W-16C	5/14/2010	8.68	NM	-295
W-16C	8/9/2010	8.02	2.57	-165
W-16C	11/5/2010	8.24	2.37	-72
W-16C	2/7/2011	8.03	4.34	-285
W-16C	4/18/2011	8.55	2.88	-249.5

Table IV
Summary of Field Test Parameters
Former Powerine Refinery
Santa Fe Springs, California
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Well ID	Sample Date	pH (SU)	DO (mg/L)	ORP (mV)
W-16C	8/26/2011	7.81	2.71	-223.2
W-16C	11/9/2011	7.57	6.94	-185
W-16C	2/3/2012	8.84	2.51	-253.2
W-16C	5/3/2012	8.52	3.00	-205.8
W-16C	8/22/2012	8.30	2.60	-138.7
W-16C	10/31/2012	8.25	2.93	-185.2
W-17A	12/18/2009	8.02	7.10	30
W-17A	3/3/2010	6.67	5.41	74
W-17A	5/12/2010	8.25	0.88	-40
W-17A	8/4/2010	7.78	2.35	62
W-17A	11/3/2010	8.17	2.95	76
W-17A	2/2/2011	8.36	5.96	349
W-17A	4/20/2011	7.85	3.51	-5.8
W-17A	8/24/2011	7.85	3.23	2.6
W-17A	11/9/2011	7.19	4.78	-13
W-17A	2/7/2012	8.46	2.87	-20
W-17A	5/4/2012	8.20	3.45	-43.8
W-17A	8/23/2012	8.12	2.36	20.5
W-17A	11/1/2012	8.28	3.09	78.2
W-17B	12/18/2009	8.49	7.18	-173
W-17B	3/3/2010	7.87	4.80	-197
W-17B	5/12/2010	8.35	NM	-313
W-17B	8/5/2010	7.96	2.31	-189
W-17B	11/3/2010	8.09	2.56	-25
W-17B	2/2/2011	8.43	3.45	-269
W-17B	4/20/2011	8.11	3.32	-168.5
W-17B	8/24/2011	7.88	3.41	-153.7
W-17B	11/9/2011	7.52	2.94	-136.4
W-17B	2/7/2012	8.65	2.50	-174.3
W-17B	5/4/2012	8.40	2.87	-118.7
W-17B	8/23/2012	8.25	2.13	-156.5
W-17B	11/1/2012	8.45	2.35	-97.2
W-17C	12/18/2009	8.79	8.74	-177
W-17C	3/4/2010	7.96	5.90	-209
W-17C	5/12/2010	8.49	3.03	-322
W-17C	8/5/2010	8.01	2.64	-167
W-17C	11/3/2010	8.16	2.79	-120
W-17C	2/2/2011	8.47	3.96	-301
W-17C	4/20/2011	8.26	2.08	-223.7

Table IV
Summary of Field Test Parameters
Former Powerine Refinery
Santa Fe Springs, California
4Q2012

Well ID	Sample Date	pH (SU)	DO (mg/L)	ORP (mV)
W-17C	8/24/2011	7.94	3.12	-201.7
W-17C	11/9/2011	7.43	3.36	-159.7
W-17C	2/7/2012	8.80	2.73	-226.4
W-17C	5/4/2012	8.50	2.56	-168.5
W-17C	8/23/2012	8.39	2.39	-177.5
W-17C	11/1/2012	8.48	2.87	-151.4
EW-1	2/3/2011	7.90	6.61	-258
EW-1	4/13/2011	8.15	2.86	-210
EW-1	8/29/2011	7.62	2.74	-293
EW-1	11/16/2011	(FPPH)	(FPPH)	(FPPH)
EW-1	2/6/2012	(FPPH)	(FPPH)	(FPPH)
EW-1	5/7/2012	(FPPH)	(FPPH)	(FPPH)
EW-1	8/24/2012	(FPPH)	(FPPH)	(FPPH)
EW-1	11/13/2012	(FPPH)	(FPPH)	(FPPH)
MW-701	2/4/2011	6.09	NM	NM
MW-701	4/11/2011	7.60	3.67	180.6
MW-701	8/30/2011	7.50	3.98	-31.2
MW-701	11/16/2011	6.90	2.93	25.9
MW-701	2/1/2012	8.18	4.3	-58.5
MW-701	5/11/2012	7.89	3.45	-8.8
MW-701	8/31/2012	7.97	4.00	28.7
MW-701	11/13/2012	7.88	3.00	161.0
MW-702	2/4/2011	6.04	NM	NM
MW-702	4/12/2011	7.70	3.29	103.1
MW-702	8/30/2011	7.34	3.23	-155.3
MW-702	11/16/2011	7.07	2.67	-172.7
MW-702	2/9/2012	7.89	4.73	-60.7
MW-702	5/11/2012	7.77	3.14	-99.9
MW-702	8/31/2012	7.76	3.48	-92.8
MW-702	11/13/2012	7.74	2.77	-116.3
MW-703	2/4/2011	6.25	NM	NM
MW-703	4/12/2011	7.57	3.53	132.4
MW-703	8/30/2011	7.30	4.2	-87.1
MW-703	11/17/2011	6.92	2.77	-98
MW-703	2/14/2012	8.11	4.07	-26.3
MW-703	5/11/2012	7.85	3.13	-72.6
MW-703	8/31/2012	7.68	3.20	-21.3
MW-703	11/14/2012	NM	NM	NM
MW-704	2/9/2011	6.08	NM	NM

Table IV
Summary of Field Test Parameters
Former Powerine Refinery
Santa Fe Springs, California
4Q2012

Well ID	Sample Date	pH (SU)	DO (mg/L)	ORP (mV)
MW-704	4/13/2011	7.46	4.60	134.6
MW-704	8/31/2011	7.40	4.02	99.4
MW-704	11/17/2011	6.93	2.51	-148.8
MW-704	2/14/2012	7.80	4.2	-31.6
MW-704	5/14/2012	7.60	5.25	-30.0
MW-704	9/4/2012	7.87	2.85	31.7
MW-704	11/14/2012	NM	NM	NM
MW-705	2/4/2011	6.01	NM	NM
MW-705	4/12/2011	7.79	3.40	127.6
MW-705	8/31/2011	7.78	3.7	-55.5
MW-705	11/17/2011	7.04	3.16	-130.7
MW-705	2/14/2012	8.12	4.09	-57.6
MW-705	5/14/2012	7.88	2.50	-65.0
MW-705	9/4/2012	7.80	3.47	-28.4
MW-705	11/14/2012	NM	NM	NM
MW-706	2/4/2011	6.21	NM	NM
MW-706	4/11/2011	7.99	4.02	158.7
MW-706	8/31/2011	7.76	3.03	-41.2
MW-706	11/18/2011	6.93	3.06	180.8
MW-706	2/14/2012	8.16	3.00	-52.7
MW-706	5/14/2012	7.87	2.77	-63.5
MW-706	9/4/2012	7.84	3.24	18.2
MW-706	11/15/2012	8.04	3.31	-26.4
MW-707	2/4/2011	6.22	NM	NM
MW-707	4/8/2011	7.89	3.24	51.9
MW-707	9/1/2011	7.30	3.73	-9.4
MW-707	11/18/2011	6.89	2.8	11.3
MW-707	2/1/2012	8.19	3.1	-147
MW-707	5/15/2012	7.75	2.50	-72.6
MW-707	9/4/2012	7.55	3.26	-44.5
MW-707	11/15/2012	7.64	2.13	-88.8
MW-708	2/4/2011	5.99	NM	NM
MW-708	4/6/2011	7.84	3.03	-119.8
MW-708	9/1/2011	7.51	3.45	-147.2
MW-708	11/18/2011	7.00	3.56	-161.3
MW-708	2/10/2012	8.09	2.75	-140.2
MW-708	5/15/2012	7.79	2.36	-136.1
MW-708	9/5/2012	7.78	2.39	-113.1
MW-708	11/16/2012	7.90	2.50	-133.6

Table IV
Summary of Field Test Parameters
Former Powerine Refinery
Santa Fe Springs, California
4Q2012

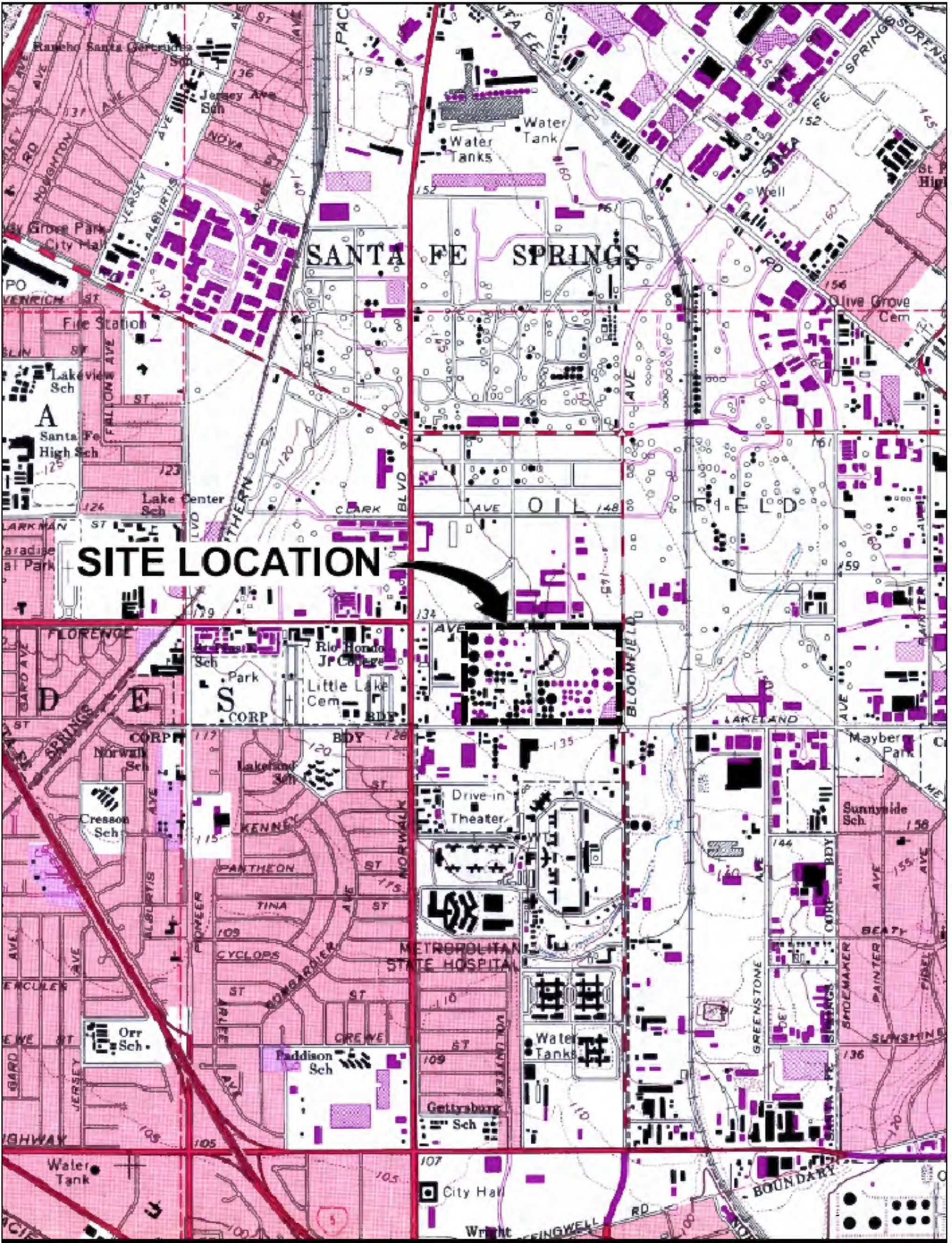
Well ID	Sample Date	pH (SU)	DO (mg/L)	ORP (mV)
MW-709	2/4/2011	6.27	NM	NM
MW-709	4/6/2011	8.08	3.74	149.6
MW-709	9/1/2011	7.38	2.97	-37
MW-709	11/21/2011	6.76	2.97	148.5
MW-709	2/10/2012	8.08	2.61	-57.1
MW-709	5/16/2012	7.70	3.12	9.3
MW-709	9/5/2012	7.82	2.07	-113.1
MW-709	11/16/2012	8.00	2.13	-78.2
MW-710	2/8/2011	6.18	NM	NM
MW-710	4/7/2011	7.88	3.54	97.7
MW-710	9/2/2011	6.87	3.68	-10.2
MW-710	11/21/2011	6.81	2.86	255.6
MW-710	2/1/2012	8.47	3.45	-64.8
MW-710	5/16/2012	7.80	4.04	21.5
MW-710	9/5/2012	7.85	2.32	30.5
MW-710	11/16/2012	7.97	3.57	43.4
MW-711	2/8/2011	5.99	NM	NM
MW-711	4/6/2011	7.91	3.39	-59.2
MW-711	9/2/2011	7.06	3.54	-99.8
MW-711	11/21/2011	6.87	2.95	-133.6
MW-711	2/10/2012	8.04	3.45	-96.7
MW-711	5/16/2012	7.73	2.37	-73.0
MW-711	9/5/2012	7.76	2.04	-175.4
MW-711	11/16/2012	7.77	2.66	-59.8
MW-712	2/7/2011	6.03	NM	NM
MW-712	4/7/2011	7.74	3.08	21.7
MW-712	9/2/2011	7.10	2.68	-59.7
MW-712	11/21/2011	6.90	2.65	-90.4
MW-712	2/13/2012	7.90	3.88	-83.5
MW-712	5/17/2012	7.71	2.80	-13.3
MW-712	9/6/2012	7.68	1.87	-42.0
MW-712	11/19/2012	7.83	2.26	-50.0
MW-713	2/7/2011	6.13	NM	NM
MW-713	4/8/2011	7.95	3.84	99.5
MW-713	9/2/2011	7.20	3.13	-51.4
MW-713	11/22/2011	6.98	3.07	-28.7
MW-713	2/13/2012	7.97	3.65	-77.7
MW-713	5/17/2012	7.70	3.11	-13.1
MW-713	9/6/2012	7.62	2.16	-120.7

Table IV
Summary of Field Test Parameters
Former Powerine Refinery
Santa Fe Springs, California
4Q2012

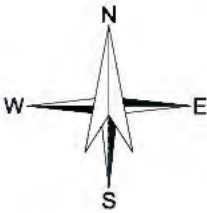
Well ID	Sample Date	pH (SU)	DO (mg/L)	ORP (mV)
MW-713	11/19/2012	7.79	2.72	-139.5
MW-714	2/8/2011	6.20	NM	NM
MW-714	4/7/2011	7.92	3.53	33.6
MW-714	9/2/2011	7.21	3.15	-63.4
MW-714	11/22/2011	6.96	2.77	-24.2
MW-714	2/13/2012	8.05	4.32	-70.5
MW-714	5/17/2012	4.60	3.00	-10.7
MW-714	9/6/2012	7.66	2.58	-50.0
MW-714	11/19/2012	7.81	3.04	-98.7
MW-715	2/14/2011	7.50	NM	NM
MW-715	4/8/2011	7.78	2.59	16.3
MW-715	9/2/2011	7.15	3.2	-89.8
MW-715	11/22/2011	6.90	2.73	-125.4
MW-715	2/1/2012	8.32	2.87	-174.2
MW-715	5/17/2012	4.20	2.58	-50.5
MW-715	9/6/2012	7.66	1.97	-98.9
MW-715	11/19/2012	7.85	3.62	-134.5

Notes:

DO dissolved oxygen
mg/L milligram(s) per liter
mV millivolts
ORP oxidation-reduction potential
SU standard units
NM Not Measured



SOURCE OF BASE MAP
U.S. GEOLOGICAL SURVEY, 7.5 MIN QUAD., WHITTIER, CA. 1965, PHOTOREVISED 1981



SCALE: NOT TO SCALE

FORMER POWERLINE REFINERY
12345 LAKELAND ROAD
SANTA FE SPRINGS, CALIFORNIA

SITE LOCATION MAP

DRAWN BY: RLM REVISION DATE: 5/15/12 REVISED BY: BER



FIGURE
1

FX-9 Wells

FX-9 Wells

FX-9 Wells

FX-9 Wells

FX-9 Wells

FX-9 Wells

FX-9 Wells

FX-9 Wells

FX-9 Wells

FX-9 Wells

FX-9 Wells

FX-9 Wells

FX-9 Wells

Appendix A

GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
PROJECT NO.: 1003-001-300
DATE: 11-6-2012 4Q2012

WELL NO. MW-104A Lakeland
SAMPLED BY: Frane Sasic

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER 4"	(inches)
DEPTH OF WELL 100.00	(ft.)
DEPTH TO WATER 92.89	(ft.)
HEIGHT OF WATER COLUMN 7.11	(ft.)
CASING VOLUME* Hgt. x 0.163 Gal./Ft. = 4.6926	(gal)
PURGE VOLUME x 3 = 14.0778	(gal)
PRODUCT THICKNESS	(ft.)

WELL CONDITION:

OK

WEATHER CONDITIONS:

Clear / sunny / light breeze (~90°F)

PURGING AND SAMPLING EQUIPMENT:

YSI 556

Interface probe (200')

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS	ORP	Color	Odor
	8										
	10										
	15										
			* PURGED DRY @ < 5 gallons *								

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
1	11-6-12	ice	8260B - VOCs + Oxys	VOAs	3	HCL	* NO field parameters collected * Well 104A purged dry at < 5 gallons. Allowed to recharge prior to sample collection. LL_104A_110612_01 @ 1000
1	10:00	ice	8015M - TPH-g	VOAs	3	HCL	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(\text{ft}) \times 7.48 \text{ gal./ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

Murex Environmental Inc.

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GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
 PROJECT NO.: 1003-001-300
 DATE: 11-6-2012 4Q2012

WELL NO. MW-106A Bloomfield
 SAMPLED BY: Frane Sosic

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER 4"	(inches)
DEPTH OF WELL 110.00	(ft.)
DEPTH TO WATER 104.03	(ft.)
HEIGHT OF WATER COLUMN 5.97	(ft.)
CASING VOLUME* Hgt. x 0.163 Gal./Ft. = 3.9402	(gal)
PURGE VOLUME x 3 = 11.82	(gal)
PRODUCT THICKNESS	(ft.)

WELL NOTES:
 WELL CONDITION:

OK

WEATHER CONDITIONS:

Clear / sunny / light wind (~ 90°F)

PURGING AND SAMPLING EQUIPMENT:

YSI S56
 Interface probe (200')

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature (F / C)	TDS	ORP	Color	Odor
	8										
	10		* DRY *								
	18										

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
1	11-6-12	ice	8260B - VOCs + Oxys	VOAs	3	HCL	* NO field parameters collected *
1	1250	ice	8015M - TPH-g	VOAs	3	HCL	106A purged dry < 5 gallons. Allowed to recharge prior to collecting sample.
							LL - 106A - 110612 - 01 @ 1250

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2 h(\text{ft}) \times 7.48 \text{ gal./ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

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GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
PROJECT NO.: 1003-001-300
DATE: 11-6-2012 4Q2012

WELL NO. MW-107A Bloomfield
SAMPLED BY: Frane Sasic

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER 4"	(inches)
DEPTH OF WELL 110.00	(ft.)
DEPTH TO WATER 104.05	(ft.)
HEIGHT OF WATER COLUMN 5.95	(ft.)
CASING VOLUME* Hgt. x 0.163 Gal./Ft. = 3.927	(gal)
PURGE VOLUME 0.66 x 3 = 11.781	(gal)
PRODUCT THICKNESS	(ft.)

WELL NOTES:
WELL CONDITION:

Very Good

WEATHER CONDITIONS:
Clear / sunny / Light wind (~90°F)

PURGING AND SAMPLING EQUIPMENT:
YSI 556
Interface probe (200')

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (S/cm)	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS g/L	ORP mV	Color	Odor
1417	5		8.43	1.813	/	3.26	24.35	1.813	-235.6	Gray	Strong
1442	10		8.29	1.810	/	2.45	24.21	1.809	-231.1	Gray	Strong
1503	15		8.27	1.781	/	2.38	23.55	1.785	-236.7	Trans. gray	Strong

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
1	11-6-12	ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL-107A-110612-01 @ 15:32
1	1532	ice	8015M - TPH-g	VOAs	3	HCL	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2 h (ft) \times 7.48 \text{ gal./ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

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GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
 PROJECT NO.: 1003-001-300
 DATE: 11/5/2012 4Q2012

WELL NO. MW-5038 Coaster
 SAMPLED BY: Frane Sosic

WELL NOTES:

WELL CONDITION:

NOT GOOD!

WEATHER CONDITIONS:

Clear / sunny / Light breeze (69°F)

PURGING AND SAMPLING EQUIPMENT:

YSI 556

Interface probe (200')

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER 4"	(inches)
DEPTH OF WELL 110.00	(ft.)
DEPTH TO WATER 100.59	(ft.)
HEIGHT OF WATER COLUMN 9.41	(ft.)
CASING VOLUME* Hgt. x 0.66 Gal./Ft. = 6.2106	(gal)
PURGE VOLUME x 3 = 18.6318	(gal)
PRODUCT THICKNESS	(ft.)

PURGE DATA											
Time:	Purge Volume {Gal.}	Flow Rate {Gal./Min.}	pH	Sp.Cond. μS/cm	Turbidity NTUs	DO mg/L	Temperature {F/C}	TDS g/L	ORP mV	Color	Odor
	5		7.99	1.861	/	2.59	26.44	1.213	106.7	Light grey	Strong
	10		7.98	1.865	/	2.40	26.40	1.211	101.1	Cloudy	Strong
	15		8.00	1.863	/	2.06	26.43	1.210	96.5	Cloudy	Strong

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES: Well is drying up slowly
1	11-5-12	ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL-503B-110512-01 @ 15:30
1	15:30	ice	8015M - TPH-g	VOAs	3	HCL	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(\text{ft}) \times 7.48 \text{ gal/ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
 PROJECT NO.: 1003-001-300
 DATE: 11/5/2012 4Q2012

WELL NO. W-1 Walker
 SAMPLED BY: Frane Sasic

WELL NOTES:

WELL CONDITION:

GOOD

WEATHER CONDITIONS:

Clear / Sunny / Light breeze (~93°F)

PURGING AND SAMPLING EQUIPMENT:

YSI 556

Interface probe (200')

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER 4"	(inches)
DEPTH OF WELL 120.00	(ft.)
DEPTH TO WATER 108.91	(ft.)
HEIGHT OF WATER COLUMN 11.09	(ft.)
CASING VOLUME* Hgt. x 0.163 Gal./Ft. = 7.3194	(gal)
PURGE VOLUME x 3 = 21.96	(gal)
PRODUCT THICKNESS	(ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. <small>(µS/cm)</small>	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS g/L	ORP mV	Color	Odor
1047	5		7.87	2.545	/	2.28	25.68	1.653	56.7	Clear	Mild
1133	10		7.84	2.540	/	1.97	25.45	1.651	43.1	Cloudy	Mild
1156	15		7.77	2.532	/	2.69	25.20	1.645	-31.4	Clear	Moderate
1238	20		7.82	2.534	/	2.47	25.23	1.646	-40.0	Clear	Mild
Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:				
1	11:51:12	ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL-W1-110512_01 @ 13:00				
1	1300	ice	8015M - TPH-g	VOAs	3	HCL					

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2 h(\text{ft}) \times 7.48 \text{ gal/ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

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GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
PROJECT NO.: 1003-001-300
DATE: 11/5/2012 4Q2012

WELL NO. W-4 Walker
SAMPLED BY: Frane Sasic

WELL NOTES:
WELL CONDITION: NOT GOOD

WEATHER CONDITIONS: Clear / Sunny / Hot (~93°F)

PURGING AND SAMPLING EQUIPMENT:
YSI 556
Interface probe (200')

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER 4"	(inches)
DEPTH OF WELL 120.00	(ft.)
DEPTH TO WATER 110.00	(ft.)
HEIGHT OF WATER COLUMN 10.00	(ft.)
CASING VOLUME* Hgt. x 0.163 Gal./Ft. = 6.6	(gal)
PURGE VOLUME x 3 = 19.8	(gal)
PRODUCT THICKNESS	(ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. $\mu\text{S/cm}$	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS g/L	ORP mV	Color	Odor
839	5		8.17	2.277	/	2.89	24.38	1.488	-113.1	Cloudy	Strong
920	10		8.10	2.274	/	2.45	24.62	1.483	-55.9	Cloudy	Strong
954	15		8.09	2.281	/	2.60	24.90	1.483	-34.3	Clear	Strong
1036	20		8.18	2.257	/	3.95	20.97	1.469	20.2	Clear	Strong

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
1	11.5.12	ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL-W4-110512-01 @ 945
1	945	ice	8015M - TPH-g	VOAs	3	HCL	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(\text{ft}) \times 7.48 \text{ gal/ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

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GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
 PROJECT NO.: 1003-001-300
 DATE: 11-8-12 4Q2012

WELL NO. W-11 Lakeland
 SAMPLED BY: Frane Sasic

WELL NOTES: Historically contained FPPH

WELL CONDITION:

GOOD

WEATHER CONDITIONS:

Rainy morning (59°F)
 Cloudy/windy afternoon (68°F)

PURGING AND SAMPLING EQUIPMENT:

YSI 556

Interface probe (200')

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER 2"	(inches)
DEPTH OF WELL 110.00	(ft.)
DEPTH TO WATER 97.43	(ft.)
HEIGHT OF WATER COLUMN 12.57	(ft.)
CASING VOLUME* Hgt. x 0.163 Gal./Ft. = 2.04891	(gal)
PURGE VOLUME x 3 = 6.14673	(gal)
PRODUCT THICKNESS	(ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. µS/cm	Turbidity NTUs	DO mg/L	Temperature (F / C)	TDS g/L	ORP mV	Color	Odor
945	5	VAC TRUCK	7.93	1.925	/	2.54	20.35	1.253	34.3	Olive gray	Very strong
1036	10		7.90	1.924	/	1.96	20.43	1.248	30.0	Gray	Very strong
1144	15		7.92	1.923	/	1.75	20.45	1.250	24.7	Olive	Very strong

Sample No.	Sample Time Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
1	11-8-12	ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL - W11 - 11/08/12 - 01 @ 1200
1	1238	ice	8015M - TPH-g	VOAs	3	HCL	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(ft) \times 7.48 \text{ gal/ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

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GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
PROJECT NO.: 1003-001-300
DATE: 11-8-2012 4Q2012

WELL NO. W-12 Lakeland
SAMPLED BY: Frane Susic

WELL NOTES: May Be Dry

WELL CONDITION: GOOD

WEATHER CONDITIONS:

Cloudy + windy (0-15 mph)
a few on-and-off rain

PURGING AND SAMPLING EQUIPMENT:

YSI 556
Interface probe (200')

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER 2"	(inches)
DEPTH OF WELL 116.00	(ft.)
DEPTH TO WATER 102.59	(ft.)
HEIGHT OF WATER COLUMN 13.41	(ft.)
CASING VOLUME* Hgt. x 0.163 Gal./Ft. = 2.18583	(gal)
PURGE VOLUME x 3 = 6.55749	(gal)
PRODUCT THICKNESS	(ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. $\mu\text{S/cm}$	Turbidity NTUs	DO mg/L	Temperature (F / C)	TDS μL	ORP mV	Color	Odor
	3	VAC TRUCK	7.85	1.965	/	2.69	20.96	1.274	16.3	Olive	Mild
	6		7.85	1.981	/	2.83	21.59	1.286	-52.3	Light gray	Mild
	10		7.88	1.993	/	2.31	20.95	1.295	-42.6	Cloudy	Mild

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES: W-12 is going dry: very slow purge LL W12 11/08/12 01 @ 1600
1	11-8-12	ice	8260B - VOCs + Oxys	VOAs	3	HCL	
1	1600	ice	8015M - TPH-g	VOAs	3	HCL	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2 h(\text{ft}) \times 7.48 \text{ gal./ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

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GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
 PROJECT NO.: 1003-001-300
 DATE: 10/29/12 4Q2012

WELL NO. MW-14A Hospital
 SAMPLED BY: Frane Sasic

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER <u>2"</u>	(inches)
DEPTH OF WELL <u>113.00</u>	(ft.)
DEPTH TO WATER <u>94.32</u>	(ft.)
HEIGHT OF WATER COLUMN <u>18.68</u>	(ft.)
CASING VOLUME* Hgt. x 0.163 Gal./Ft. = <u>3.04484</u>	(gal)
PURGE VOLUME x 3 = <u>9.13452</u>	(gal)
PRODUCT THICKNESS	(ft.)

WELL CONDITION:

OK

WEATHER CONDITIONS:

Clear + sunny (~82°F)

PURGING AND SAMPLING EQUIPMENT:

YSI 556

Interface probe (200')

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. <small>u. (S/cm)</small>	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS g/L	ORP mV	Color	Odor
<u>938</u>	<u>5</u>	<u>VAC TRUCK</u>	<u>8.03</u>	<u>1.571</u>	<u>/</u>	<u>3.45</u>	<u>21.45</u>	<u>1.021</u>	<u>113.6</u>	<u>Cloudy</u>	<u>Slight</u>
<u>1007</u>	<u>10</u>	<u>I</u>	<u>8.22</u>	<u>1.546</u>	<u>/</u>	<u>2.69</u>	<u>21.88</u>	<u>1.005</u>	<u>59.8</u>	<u>Cloudy</u>	<u>Slight</u>
<u>1025</u>	<u>15</u>	<u>I</u>	<u>8.23</u>	<u>1.565</u>	<u>/</u>	<u>3.01</u>	<u>21.46</u>	<u>1.018</u>	<u>22.5</u>	<u>Cloudy</u>	<u>Slight</u>

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
<u>1</u>	<u>10-29-12</u>	<u>ice</u>	<u>8260B - VOCs + Oxys</u>	<u>VOAs</u>	<u>3</u>	<u>HCL</u>	<u>LL-14A-102912-01 @ 10:37</u>
<u>1</u>	<u>10:37</u>	<u>ice</u>	<u>8015M - TPH-g</u>	<u>VOAs</u>	<u>3</u>	<u>HCL</u>	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(ft) \times 7.48 \text{ gal/ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PAGE 1 OF 2

PROJECT NAME: CENCO
PROJECT NO.: 1003-001-300
DATE: 10/29/12 4Q2012

WELL NO. MW-14B Hospital
SAMPLED BY: Frane Sasic

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER 2"	(inches)
DEPTH OF WELL 167.00	(ft.)
DEPTH TO WATER 93.52	(ft.)
HEIGHT OF WATER COLUMN 73.48	(ft.)
CASING VOLUME* Hgt. x 0.163 Gal./Ft. = 11.97724	(gal)
PURGE VOLUME x 3 = 35.93	(gal)
PRODUCT THICKNESS	(ft.)

WELL CONDITION:

OK

WEATHER CONDITIONS:

Clear + sunny (~85°F)

PURGING AND SAMPLING EQUIPMENT:

YSI 556

Interface probe (200')

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (µS/cm)	Turbidity NTUs	DO mg/L	Temperature °C	TDS g/L	ORP	Color	Odor
1147	5	VAC TRUCK	8.15	1.577	/	5.80	20.88	1.027	-12.7	Cloudy	Slight
1204	10	↓	8.21	1.602	/	3.04	20.75	1.041	12.4	Cloudy	Slight
1214	15	↓	8.19	1.594	/	3.72	21.04	1.036	-5.5	Clear	Slight

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
1	10-29-12	ice	8260B - VOCs + Oxys	VOAs	3	HCL	Very slow purging well
1	1320	ice	8015M - TPH-g	VOAs	3	HCL	Took nearly 60 mins. to get first 5 gallons.
							LL-14B-102912-01 @ 13:20

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2 h (ft) \times 7.48 \text{ gal./ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

Page 2 of 2

PROJECT NO.: 1003-001-300

DATE: 10-29-2012 (4Q2012)

WELL NO. 14 B

SAMPLED BY: Frane Sosic

[illegible]

GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
 PROJECT NO.: 1003-001-300
 DATE: 10/29/12 4Q2012

WELL NO. MW-14C Hospital
 SAMPLED BY: Frane Sasic

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER 2"	(inches)
DEPTH OF WELL 195.00	(ft.)
DEPTH TO WATER 93.75	(ft.)
HEIGHT OF WATER COLUMN 101.25	(ft.)
CASING VOLUME* Hgt. x 0.163 Gal./Ft. = 16.50375	(gal)
PURGE VOLUME x 3 = 49.51125	(gal)
PRODUCT THICKNESS	(ft.)

WELL CONDITION:

OK

WEATHER CONDITIONS:

Clear + sunny (~85°F)

PURGING AND SAMPLING EQUIPMENT:

YSI 556

Interface probe (200')

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. $\mu\text{S/cm}$	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS g/L	ORP mV	Color	Odor
1330	5	VAC TRUCK	8.20	1.700	/	4.20	23.72	1.118	13.1	Cloudy	Slight
1339	10	↓	8.18	1.676	/	3.70	23.59	1.086	7.3	Cloudy	Slight
1346	15	↓	8.17	1.659	/	3.45	23.68	1.078	-1.6	Clear	Slight

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
1	10:29:12	ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL-14C-102912-01 @ 1536
1	15:36	ice	8015M - TPH-g	VOAs	3	HCL	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2 h (\text{ft}) \times 7.48 \text{ gal/ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

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PROJECT NO.: 1003-001-300

DATE: 10/29/12 4020/2

140

SAMPLED BY: Frane Sosic

[illegible]

GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
 PROJECT NO.: 1003-001-300
 DATE: 10/30/12 4Q2012

WELL NO. MW-15A Hospital
 SAMPLED BY: Frane Sasic

Well Notes: May contain FPPH

WELL CONDITION:
OK - stinger will need replacement soon

WEATHER CONDITIONS:
Clear + sunny (~80°F)

PURGING AND SAMPLING EQUIPMENT:
YSI S56
interface probe (200')

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER	(inches)
DEPTH OF WELL	<u>25.00</u> (ft.)
DEPTH TO WATER	<u>113.38</u> (ft.)
HEIGHT OF WATER COLUMN	<u>11.62</u> (ft.)
CASING VOLUME*	Hgt. x 0.163 Gal./Ft. = <u>1.89406</u> (gal)
PURGE VOLUME	x 3 = <u>5.68</u> (gal)
PRODUCT THICKNESS	<u>113.38 (DTW) - 110.91 (FPPH) = 2.47</u> (ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature (F / C)	TDS	ORP	Color	Odor
/	/	/	<u>* FPPH *</u>	/	/	/	/	/	/	/	/
/	/	/	/	/	/	/	/	/	/	/	/
/	/	/	/	/	/	/	/	/	/	/	/

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
<u>1</u>	<u>10:30:12</u>	<u>ice</u>	<u>8260B - VOCs + Oxys</u>	<u>VOAs</u>	<u>3</u>	<u>HCL</u>	<u>* No parameters measured due to free product</u> <u>Top-down skim of FPPH ~30 gal H₂O</u> <u>Approx. 45 gallons purged: ~10 gal FPPH</u> <u>~5 gal emulsion layer</u> <u>LL-15A-103012-01 @ 10:22</u>
<u>1</u>	<u>10:22</u>	<u>ice</u>	<u>8015M - TPH-g</u>	<u>VOAs</u>	<u>3</u>	<u>HCL</u>	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2 h (\text{ft}) \times 7.48 \text{ gal/ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
 PROJECT NO.: 1003-001-300
 DATE: 10/30/12 4Q2012

WELL NO. MW-15B Hospital
 SAMPLED BY: Frane Sosic

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER 2"	(inches)
DEPTH OF WELL 155.00	(ft.)
DEPTH TO WATER 111.40	(ft.)
HEIGHT OF WATER COLUMN 43.60	(ft.)
CASING VOLUME* Hgt. x 0.163 Gal./Ft. = 7.1068	(gal)
PURGE VOLUME x 3 = 21.3204	(gal)
PRODUCT THICKNESS	(ft.)

WELL CONDITION:
 OK

WEATHER CONDITIONS:
 Clear + sunny (~82°F)

PURGING AND SAMPLING EQUIPMENT:
 YSI 556
 Interface probe (200')

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. $\mu S/cm$	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS g/L	ORP mV	Color	Odor
1100	5	VAC TRUCK	8.22	2.074	/	4.34	22.25	1.350	318.5	Olive	Strong
1148	10		8.24	2.069	/	3.13	21.35	1.344	186.3	Light green	Mild
1236	15		8.20	2.051	/	3.21	21.59	1.334	153.8	Light green	Mild
1313	22		8.21	2.046	/	2.80	21.37	1.330	123.6	Clear	Mild
Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:				
1	10:30/12	ice	8260B - VOCs + Oxys	VOAs	3	HCL	Stinger is cracked/damaged somewhere; loss of vacuum pressure is noticeable (per Nico) Very slow purging well!				
1	1330	ice	8015M - TPH-g	VOAs	3	HCL					
							LL-15B-103012-01 @ 1330				

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2 h (ft) \times 7.48 \text{ gal./ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PAGE 1 OF 2

PROJECT NAME: CENCO
 PROJECT NO.: 1003-001-300
 DATE: 10/30/12 4Q2012

WELL NO. MW-15C Hospital
 SAMPLED BY: Frane Susic

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER 2"	(inches)
DEPTH OF WELL 197.00	(ft.)
DEPTH TO WATER 112.02	(ft.)
HEIGHT OF WATER COLUMN 84.98	(ft.)
CASING VOLUME* Hgt. x 0.163 Gal./Ft. = 13.85174	(gal)
PURGE VOLUME x 3 = 41.55522	(gal)
PRODUCT THICKNESS	(ft.)

WELL CONDITION:

OK

WEATHER CONDITIONS:

Clear + sunny (~82°F)

PURGING AND SAMPLING EQUIPMENT:

YSI 556

Interface probe (200')

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. mS/cm	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS g/L	ORP mV	Color	Odor
1320	5	VAC TRUCK	8.23	1.845	/	4.08	21.21	1.199	84.0	Gray	Mild
1328	10	↓	8.20	1.853	/	3.02	21.47	1.204	81.6	Light gray	Mild
1345	15	↓	8.09	1.849	/	2.79	22.00	1.196	90.2	Cloudy	Mild

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
1	10:30-12	ice	8260B - VOCs + OxyS	VOAs	3	HCL	Bailer snagged/stuck to coupling
1	1727	ice	8015M - TPH-g	VOAs	3	HCL	Had to pull entire stinger out in order to collect sample
							LL-15C-103012-01 @ 17:27

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2 h(\text{ft}) \times 7.48 \text{ gal/ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO

WELL NO. MW-708 Hospital

Page 2 of 2

PROJECT NAME: CENCO

PROJECT NO.: 1003-001-300

DATE: 10/30/2012 4Q2012

WELL NO. 15C

SAMPLED BY: Frane Sosic

[illegible]

GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
PROJECT NO.: 1003-001-300
DATE: 10-31-12 4Q2012

WELL NO. MW-16A Walker
SAMPLED BY: Frane Sasic

WELL NOTES:
WELL CONDITION:

GOOD

WEATHER CONDITIONS:

Hazy fog/cool AM (~60°F)
Mostly sunny w/ light breeze PM (~75°F)

PURGING AND SAMPLING EQUIPMENT:

YSI 556
Interface probe (200')

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER 2"	(inches)
DEPTH OF WELL 125.00	(ft.)
DEPTH TO WATER 112.10	(ft.)
HEIGHT OF WATER COLUMN 12.9	(ft.)
CASING VOLUME* Hgt. x 0.163 Gal./Ft. = 2.1027	(gal)
PURGE VOLUME x 3 = 6.3081	(gal)
PRODUCT THICKNESS	(ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. $\mu\text{S/cm}$	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS g/L	ORP mV	Color	Odor
826	~2	VAC TRUCK	8.14	2.528	—	8.13	17.87	1.645	116.1	Clear	None
900	~4	I	8.17	2.523	—	4.80	17.91	1.640	115.2	Clear	None
941	~6	I	8.15	2.525	—	4.03	18.06	1.637	113.1	Clear	None

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
1	10-31-12	ice	8260B - VOCs + Olys	VOAs	3	HCL	Very slow purge; well may be going dry. Allowed to re-charge for ~1 hour prior to sample collection. LL-16A-103112-01 @ 11:00
1	1100	ice	8015M - TPH-g	VOAs	3	HCL	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(\text{ft}) \times 7.48 \text{ gal/ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

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GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
 PROJECT NO.: 1003-001-300
 DATE: 10-31-2012 4Q2012

WELL NO. MW-16B Walker
 SAMPLED BY: Frane Sosic

WELL NOTES:
 WELL CONDITION: GOOD

WEATHER CONDITIONS:
 Cool + Foggy AM (~62°F)
 Mostly sunny w/ light wind PM (~75°F)

PURGING AND SAMPLING EQUIPMENT:
 YSI 556
 Interface probe (200')

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER 2"	(inches)
DEPTH OF WELL 160.00	(ft.)
DEPTH TO WATER 120.07	(ft.)
HEIGHT OF WATER COLUMN 39.93	(ft.)
CASING VOLUME* Hgt. x 0.163 Gal./Ft. = 6.50859	(gal)
PURGE VOLUME x 3 = 19.52577	(gal)
PRODUCT THICKNESS	(ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. $\mu S/cm$	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS g/L	ORP mV	Color	Odor
1130	5	VAC TRUCK	8.54	2.382	—	3.35	18.60	1.549	-175.2	Cloudy	Strong
1147	10		8.65	2.309	—	3.26	18.98	1.502	-183.4	Clear	Strong
1202	15		8.64	2.276	—	3.59	19.31	1.488	-187.1	Clear	Strong
1216	20		8.62	2.243	—	3.88	19.51	1.457	-189.5	Clear	Strong
Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:				
1	10-31-12	ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL 16B-103112-01 @ 1234				
1	12:34	ice	8015M - TPH-g	VOAs	3	HCL					

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(ft) \times 7.48 \text{ gal./ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

Murex Environmental Inc.

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GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
 PROJECT NO.: 1003-001-300
 DATE: 10-31-2012 4Q2012

WELL NO. MW-16C Walker
 SAMPLED BY: Frane Sasic

WELL NOTES:
 WELL CONDITION:

GOOD

WEATHER CONDITIONS:

Mostly sunny w/ light breeze (67-72°F)

PURGING AND SAMPLING EQUIPMENT:

YSI 556

Interface probe (200')

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER 2"	(inches)
DEPTH OF WELL 196.00	(ft.)
DEPTH TO WATER 119.84	(ft.)
HEIGHT OF WATER COLUMN 76.16	(ft.)
CASING VOLUME* Hgt. x 0.163 Gal./Ft. = 12.41408	(gal)
PURGE VOLUME x 3 = 37.24224	(gal)
PRODUCT THICKNESS	(ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. µS/cm	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS g/L	ORP mV	Color	Odor
1229	5	VAC TRUCK	8.59	1.581	/	3.85	21.09	1.027	-213.6	Clear	Strong Sulphur
1235	10	↓	8.51	1.781	/	3.23	20.81	1.158	-201.4	Clear	-11-
1241	15	↓	8.42	1.841	/	2.79	21.07	1.197	-198.7	Clear	-11-

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
1	10-31-12	ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL-16C-103112-01 @ 14:46
1	1446	ice	8015M - TPH-g	VOAs	3	HCL	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(\text{ft}) \times 7.48 \text{ gal./ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

Page 2 of 2

PROJECT NO.: 1003-001-300

DATE: 10.31.2012 (4Q2012)

SAMPLED BY: Frane Sosic

[illegible]

GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
PROJECT NO.: 1003-001-300
DATE: 11-1-2012 4Q2012

WELL NO. W-17A Lakeland
SAMPLED BY: Frane Sosis

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER 2"	(inches)
DEPTH OF WELL 110.00	(ft.)
DEPTH TO WATER 96.07	(ft.)
HEIGHT OF WATER COLUMN 13.93	(ft.)
CASING VOLUME* Hgt. x 0.163 Gal./Ft. = 2.24059	(gal)
PURGE VOLUME x 3 = 6.8177	(gal)
PRODUCT THICKNESS	(ft.)

WELL CONDITION: NOT GOOD
WEATHER CONDITIONS: High clouds and humid (~74°F)
PURGING AND SAMPLING EQUIPMENT: YSI 556 Interface probe (200')

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (S/cm)	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS g/L	ORP mV	Color	Odor
806	3	VACTRUCK	8.30	2.188	/	6.57	21.21	1.419	95.9	Gray	Slight
917	6		8.27	2.186	/	4.23	21.24	1.425	88.8	Light gray	Slight
1000	8		8.28	2.196	/	3.09	21.28	1.428	78.2	Cloudy	Slight

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES: Very slow purge
1	11-1-12	ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL-17A-110112-01 @ 1027
1	10:27	ice	8015M - TPH-g	VOAs	3	HCL	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(ft) \times 7.48 \text{ gal./ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

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GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
PROJECT NO.: 1003-001-300
DATE: 11-1-2012 4Q2012

WELL NO. W-178 Lakeland
SAMPLED BY: Frane Sosic

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER 2"	(inches)
DEPTH OF WELL 170.00	(ft.)
DEPTH TO WATER 109.06	(ft.)
HEIGHT OF WATER COLUMN 60.94	(ft.)
CASING VOLUME* Hgt. x 0.163 Gal./Ft. = 9.93322	(gal)
PURGE VOLUME x 3 = 29.79966	(gal)
PRODUCT THICKNESS	(ft.)

WELL CONDITION:

NOT GOOD

WEATHER CONDITIONS:

High clouds + humid w/ light breeze
(67°F)

PURGING AND SAMPLING EQUIPMENT:

YSI 556

Interface probe (200')

1036	5	VAC TRUCK	8.48	1.513	—	3.46	22.00	0.988	-91.9	Olive gray	Mild (H ₂ S)
1110	10		8.50	1.500	PURGE	DATA 3.24	21.49	0.974	-113.6	Olive	-11-
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (µS/cm)	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS g/L	ORP mV	Color	Odor
1143	15		8.48	1.486	—	2.94	21.90	0.966	-109.5	Light gray	-11-
1203	20		8.44	1.485	—	2.80	21.80	0.967	-111.8	Cloudy	-11-
1222	25		8.46	1.487	—	2.54	21.42	0.966	-98.7	Clear	-11-
1250	30		8.45	1.490	—	2.35	21.27	0.965	-97.2	Cloudy	(H ₂ S)
Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:				
1	11-1-12	ice	8260B - VOCs + Oxys	VOAs	3	HCL	Very slow purge!				
1	1316	ice	8015M - TPH-g	VOAs	3	HCL	LL 17B 110112_01 @ 13:16				

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2 h(\text{ft}) \times 7.48 \text{ gal./ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

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GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
 PROJECT NO.: 1003-001-300
 DATE: 11-1-2012 4Q2012

WELL NO. W-17C Lakeland
 SAMPLED BY: Frane Sosic

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER 2"	(inches)
DEPTH OF WELL 200.00	(ft.)
DEPTH TO WATER 109.12	(ft.)
HEIGHT OF WATER COLUMN 90.88	(ft.)
CASING VOLUME* Hgt. x 0.163 Gal./Ft. = 14.8344	(gal)
PURGE VOLUME x 3 = 44.44	(gal)
PRODUCT THICKNESS	(ft.)

WELL CONDITION:

NOT GOOD

WEATHER CONDITIONS:

Partially cloudy w/ a light breeze (67°F)

PURGING AND SAMPLING EQUIPMENT:

YSI 556

Interface probe (200')

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS g/L	ORP	Color	Odor
1300	5	VAC TRUCK	8.39	1.479	/	3.34	21.20	0.962	-118.6	Gray	Mild
1325	10	↓	8.45	1.400	/	3.14	21.30	0.921	-113.1	Gray	Mild
1342	15	↓	8.49	1.311	/	2.77	21.26	0.900	-107.4	Light gray	Mild

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
1	11-1-12	ice	8260B - VOCs + Oxys	VOAs	3	HCL	Very slow pumping well LL-17C-110112-01 @ 15:40
1	1540	ice	8015M - TPH-g	VOAs	3	HCL	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(\text{ft}) \times 7.48 \text{ gal/ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

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PROJECT NO.: 1003-001-300

DATE: 11-1-2012 (4Q2012)

17C

SAMPLED BY: Frane Sosic

[illegible]

GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
 PROJECT NO.: 1003-001-300
 DATE: 11-13-12 4Q2012

WELL NO. EW-1 Walker
 SAMPLED BY: Frane Sasic

WELL NOTES: Contains FPPH + VOC Vapors

WELL CONDITION: NOT GOOD!

WEATHER CONDITIONS: Clear + sunny (~82°F)

PURGING AND SAMPLING EQUIPMENT:
 YSI 556
 Interface probe (200')

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER 4"	(inches)
DEPTH OF WELL ~113.00	(ft.)
DEPTH TO WATER 105.52	(ft.)
HEIGHT OF WATER COLUMN 7.48	(ft.)
CASING VOLUME* Hgt. x 0.66 Gal./Ft. = 4.9368	(gal)
PURGE VOLUME x 3 = 14.8104	(gal)
PRODUCT THICKNESS 106.40 (DTFP) - 105.52 (DTW) = 0.88	(ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS	ORP	Color	Odor
			* FPPH *								

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
1	11-13-12	ice	8260B - VOCs + OxyS	VOAs	3	HCL	* No field parameters collected *
1	1200	ice	8015M - TPH-g	VOAs	3	HCL	Top-down FPPH skim. Total of 40 gallons removed from EW-1 ~ 7 gal. of brown FPPH ~ 3 gal. of light brown emulsified H ₂ O/FPPH ~ 30 gal. of GW

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $\pi r^2 h$ (ft) x 7.48 gal/ft.³

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

LL-EW-111312-01 @ 12:00

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GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
 PROJECT NO.: 1003-001-300
 DATE: 11-13-2012 4Q2012

WELL NO. MW-701 Lakeland
 SAMPLED BY: Frane Sosic

Well Notes:

WELL CONDITION:

Very good

WEATHER CONDITIONS:

Clear + Sunny (~82°F)

PURGING AND SAMPLING EQUIPMENT:

YSI 556

Interface probe (200')

WELL INFORMATION		
TOP OF CASING ELEV.		(ft.)
WELL DIAMETER	4"	(inches)
DEPTH OF WELL	130.00	(ft.)
DEPTH TO WATER	98.51	(ft.)
HEIGHT OF WATER COLUMN		(ft.)
CASING VOLUME*	Hgt. x Gal./Ft. =	(gal)
PURGE VOLUME	x 3 =	(gal)
PRODUCT THICKNESS		(ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. µS/cm	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS g/L	ORP	Color	Odor
	5		8.47	1.931	/	5.35	24.13	1.255	206.9	Gray	Slight
	10		8.02	1.933	/	4.17	24.10	1.258	187.4	Gray	Slight
	15		7.93	1.930	/	3.60	23.90	1.255	178.6	Light gray	Slight

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
1	11-13-12	ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL-701-111312-01 @ 14:27
1	1427	ice	8015M - TPH-g	VOAs	3	HCL	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(\text{ft}) \times 7.48 \text{ gal/ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

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PROJECT NO.: 1003-001-300

DATE: 11-13-12 (4Q2012)

70

SAMPLED BY: Frane Sosic

[illegible]

GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
 PROJECT NO.: 1003-001-300
 DATE: 11-13-12 4Q2012

WELL NO. MW-702 Lakeland
 SAMPLED BY: Frane Sosic

Well Notes: Strong H₂S / CH₄ / VOC vapors

WELL CONDITION: OK

WEATHER CONDITIONS: Clear + sunny (~83°F)

PURGING AND SAMPLING EQUIPMENT:
 YSI 556
 Interface probe (200')

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER 4"	(inches)
DEPTH OF WELL 130.00	(ft.)
DEPTH TO WATER 98.26	(ft.)
HEIGHT OF WATER COLUMN 31.74	(ft.)
CASING VOLUME* Hgt. x 0.66 Gal./Ft. = 20.9484	(gal)
PURGE VOLUME x 3 = 62.8452	(gal)
PRODUCT THICKNESS	(ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS g/L	ORP	Color	Odor
1442	5		7.92	1.939	/	5.27	24.80	1.260	137.3	Cloudy	Strong
1447	10		7.86	2.001	/	2.44	25.71	1.300	51.6	Cloudy	Strong
1450	15		7.85	2.001	/	2.56	25.19	1.301	-42.5	Cloudy	Strong

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES: Vent well for 4+ hours prior to sampling ✓
1	11-13-12	ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL-702-11/13/12-01 @ 16:06
1	1606	ice	8015M - TPH-g	VOAs	3	HCL	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = r²h(ft) x 7.48 gal/ft.³

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

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PROJECT NO.: 1003-001-300

DATE: 11-13-12 (4Q2012)

WELL NO. 702

SAMPLED BY: Frane Sosic

[illegible]

GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
PROJECT NO.: 1003-001-300
DATE: 11.14.12 4Q2012

WELL NO. MW-703 Lakeland
SAMPLED BY: Frane Sasic

Well Notes: New 4" well

WELL CONDITION:

GOOD

WEATHER CONDITIONS:

Clear + sunny (~80°F)

PURGING AND SAMPLING EQUIPMENT:

YSI 556

Interface probe (200')

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER 4"	(inches)
DEPTH OF WELL 130.00	(ft.)
DEPTH TO WATER 99.96	(ft.)
HEIGHT OF WATER COLUMN 30.04	(ft.)
CASING VOLUME* Hgt. x 0.66 Gal./Ft. = 19.8264	(gal)
PURGE VOLUME x 3 = 59.4792	(gal)
PRODUCT THICKNESS	(ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. $\mu S/cm$	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS g/L	ORP mV	Color	Odor
*	5				—						
*	10		* Equipment Malfunction *			—					
*	15				—						

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES: * YSI 556 is down - no parameters collected * 60 gallons removed from well MW-703 LL-703-11/14/12-01 @ 9:24
1	11.14.12	ice	8260B - VOCs + Oxys	VOAs	3	HCL	
1	9:24	ice	8015M - TPH-g	VOAs	3	HCL	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(ft) \times 7.48 \text{ gal/ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

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GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
 PROJECT NO.: 1003-001-300
 DATE: 11-14-12 4Q2012

WELL NO. MW-704 Lakeland
 SAMPLED BY: Frane Sosic

Well Notes: _____

WELL CONDITION: _____

GOOD

WEATHER CONDITIONS: _____

Clear / sunny (~80°F)

PURGING AND SAMPLING EQUIPMENT: _____

YSI 556

Interface probe (200')

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER 4"	(inches)
DEPTH OF WELL 130.00	(ft.)
DEPTH TO WATER 101.79	(ft.)
HEIGHT OF WATER COLUMN 28.21	(ft.)
CASING VOLUME* Hgt. x 0.66 Gal./Ft. = 18.6186	(gal)
PURGE VOLUME x 3 = 55.8558	(gal)
PRODUCT THICKNESS	(ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS g/L	ORP mV	Color	Odor
*	5										
*	10		*EQUIPMENT MALFUNCTION*								
*	15										

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
1	11-14-12	ice	8260B - VOCs + Oxys	VOAs	3	HCL	* YSI 556 is down - no parameters collected * LL-704-111412-01 @ 1333 LL-704-111412-02 @ 1400
1	1333	ice	8015M - TPH-g	VOAs	3	HCL	
2	11-14-12	ice	8260B	-11-	-11-	-11-	
2	1400	ice	8015M	-11-	-11-	-11-	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(ft) \times 7.48 \text{ gal/ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

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GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
PROJECT NO.: 1003-001-300
DATE: 11-14-12 4Q2012

WELL NO. MW-705 Lakeland
SAMPLED BY: Frane Sasic

Well Notes: Strong H2S / LEL / VOC vapors

WELL CONDITION:

OK

WEATHER CONDITIONS:

Clear + sunny (~80°F)

PURGING AND SAMPLING EQUIPMENT:

YSI 556

Interface probe (200')

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER 4"	(inches)
DEPTH OF WELL 130.00	(ft.)
DEPTH TO WATER 102.94	(ft.)
HEIGHT OF WATER COLUMN 27.06	(ft.)
CASING VOLUME* Hgt. x 0.66 Gal./Ft. = 17.8596	(gal)
PURGE VOLUME x 3 = 53.5788	(gal)
PRODUCT THICKNESS	(ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS	ORP	Color	Odor
*	5										
*	10		*EQUIPMENT MALFUNCTION*								
*	15										

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES: Vent well for 4+ hours prior to sampling
1	11-14-12	ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL-705-111412-01 @ 16:20 LL-705-111412-02 @ 16:35
1	16:20	ice	8015M - TPH-g	VOAs	3	HCL	
2	11-14-12						
2	1635						

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(ft) \times 7.48 \text{ gal/ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

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GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
 PROJECT NO.: 1003-001-300
 DATE: 11-15-12 4Q2012

WELL NO. MW-706 Lakeland
 SAMPLED BY: Frane Sosic

Well Notes:

WELL CONDITION:

OK

WEATHER CONDITIONS:

Cloudy (~69°F)

PURGING AND SAMPLING EQUIPMENT:

YSI 556

Interface probe (200')

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER 4"	(inches)
DEPTH OF WELL 130.00	(ft.)
DEPTH TO WATER 99.47	(ft.)
HEIGHT OF WATER COLUMN 30.53	(ft.)
CASING VOLUME* Hgt. x 0.66 Gal./Ft. = 20.1498	(gal)
PURGE VOLUME x 3 = 60.4494	(gal)
PRODUCT THICKNESS	(ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (µS/cm)	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS µ/L	ORP mV	Color	Odor
1400	5		8.11	2.001	/	2.94	21.59	1.302	265.7	Dark gray	Strong
	10		8.12	2.003	/	2.87	21.40	1.300	244.2	Dark gray	Strong
	15		8.10	2.000	/	2.79	21.37	1.301	200.9	Gray	Strong

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
1	11-15-12	ice	8260B - VOCs + Oxys	VOAs	3	HCL	Air-line broke; purge elev slower
1	1334	ice	8015M - TPH-g	VOAs	3	HCL	LL-706-111512-01 @ 13:34
2	11-15-12	ice	8260B	-11-	-11-	-11-	LL-706-111512-02 @ 14:16
2	1416	ice	8015M	-11-	-11-	-11-	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(\text{ft}) \times 7.48 \text{ gal/ft.}^3$

* Air-line repaired *

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

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PROJECT NAME: CENCO

PROJECT NO.: 1003-001-300

DATE: 11.15.2012 (4Q2012)

WELL NO.

706

SAMPLED BY: Frane Sosic

[illegible]

GROUNDWATER SAMPLING LOG

PAGE 1 OF 2

PROJECT NAME: CENCO
 PROJECT NO.: 1003-001-300
 DATE: 11-15-12 4Q2012

WELL NO. MW-707 Coaster
 SAMPLED BY: Frane Sosic

Well Notes:
 WELL CONDITION:

GOOD

WEATHER CONDITIONS:
 Cloudy w/ light wind (~67°F)

PURGING AND SAMPLING EQUIPMENT:
 YSI 556
 Interface probe (200')

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER 4"	(inches)
DEPTH OF WELL 130.00	(ft.)
DEPTH TO WATER 97.49	(ft.)
HEIGHT OF WATER COLUMN 32.51	(ft.)
CASING VOLUME* Hgt. x 0.66 Gal./Ft. = 21.4566	(gal)
PURGE VOLUME x 3 = 64.3698	(gal)
PRODUCT THICKNESS	(ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. mS (s/cm)	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS g/L	ORP mV	Color	Odor
	5		7.88	1.759	/	6.04	21.60	1.145	-49.0	Cloudy	Mild
	10		7.83	1.751	/	3.96	22.23	1.139	-76.5	Cloudy	Mild
	15		7.85	1.756	/	4.21	22.09	1.142	-88.6	Cloudy	Mild

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
1	11-15-12	ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL-707-111512-01 @ 1600
1	16:00	ice	8015M - TPH-g	VOAs	3	HCL	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2 h (\text{ft}) \times 7.48 \text{ gal./ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

Page 2 of 2

PROJECT NAME: CENCO

PROJECT NO.: 1003-001-300

DATE: 11.15.2012 (4Q2012)

WELL NO. 707

SAMPLED BY: Frane Sosic

[illegible]

GROUNDWATER SAMPLING LOG

PAGE 1 OF 2

PROJECT NAME: CENCO
PROJECT NO.: 1003-001-300
DATE: 11-16-12 4Q2012

WELL NO. MW-708 Hospital
SAMPLED BY: Frane Sosic

Well Notes: May contain FPPH

WELL CONDITION:

GOOD

WEATHER CONDITIONS:

Scattered clouds/light wind (~70°F)

PURGING AND SAMPLING EQUIPMENT:

YSI 556

Interface probe (200')

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER 4"	(inches)
DEPTH OF WELL 130.00	(ft.)
DEPTH TO WATER 96.69	(ft.)
HEIGHT OF WATER COLUMN 33.31	(ft.)
CASING VOLUME* Hgt. x 0.66 Gal./Ft. = 21.9846	(gal)
PURGE VOLUME x 3 = 65.9538	(gal)
PRODUCT THICKNESS 96.88 (DTW) - 96.69 (DT FPPH) = 0.19	(ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (S/cm)	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS	ORP mV	Color	Odor
7:15	5		7.93	2.014	/	4.26	24.65	1.331	-118.6	Gray	Strong
7:35	10		7.89	2.015	/	3.82	24.24	1.309	-116.4	Gray	Strong
7:48	15		7.82	2.010	/	3.17	24.16	1.302	-120.9	Olive	Strong

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
1	11-16-12	ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL-708-111612-01 @ 9:30
1	9:30	ice	8015M - TPH-g	VOAs	3	HCL	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2 h (ft) \times 7.48 \text{ gal./ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

Page 2 of 2

PROJECT NO.: 1003-001-300

DATE: 11-16-2017 (462012)

708

SAMPLED BY: Frane Sosic

[illegible]

GROUNDWATER SAMPLING LOG

PAGE 1 OF 2

PROJECT NAME: CENCO
PROJECT NO.: 1003-001-300
DATE: 11.16.2012 4Q2012

WELL NO. MW-709 Hospital
SAMPLED BY: Frane Susic

Well Notes:

WELL CONDITION:

Very Good

WEATHER CONDITIONS:

Scattered clouds w/ light wind (~70°F)

PURGING AND SAMPLING EQUIPMENT:

YSI 556

Interface probe (200')

WELL INFORMATION		
TOP OF CASING ELEV.		(ft.)
WELL DIAMETER	4"	(inches)
DEPTH OF WELL	130.00	(ft.)
DEPTH TO WATER	109.15	(ft.)
HEIGHT OF WATER COLUMN	20.85	(ft.)
CASING VOLUME*	Hgt. x 0.66 Gal./Ft. = 13.761	(gal)
PURGE VOLUME	x 3 = 41.283	(gal)
PRODUCT THICKNESS		(ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS g/L	ORP mV	Color	Odor
	5		8.04	2.165	/	6.87	23.13	1.212	-77.4	Light gray	Mild
	10		8.02	2.177	/	4.32	23.04	1.214	-69.6	Light gray	Mild
	15		8.00	2.189	/	3.17	22.87	1.213	-65.0	Light gray	Mild

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
1	11.16.12	ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL-709-11/16/12-01 @ 11:48
1	11:48	ice	8015M - TPH-g	VOAs	3	HCL	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2 h (ft) \times 7.48 \text{ gal/ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

Page 2 of 2

PROJECT NO.: 1003-001-300

DATE: 11.16.2012 (4Q2012)

SAMPLED BY: Frane Sosic

[illegible]

GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
PROJECT NO.: 1003-001-300
DATE: 11.16.2012 4Q2012

WELL NO. MW-710 Hospital
SAMPLED BY: Frane Sasic

Well Notes:
WELL CONDITION:

WEATHER CONDITIONS:

PURGING AND SAMPLING EQUIPMENT:
YSI 556
Interface probe (200')

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER 4"	(inches)
DEPTH OF WELL 130.00	(ft.)
DEPTH TO WATER 95.32	(ft.)
HEIGHT OF WATER COLUMN 34.68	(ft.)
CASING VOLUME* Hgt. x 0.66 Gal./Ft. = 22.8888	(gal)
PURGE VOLUME x 3 = 68.6664	(gal)
PRODUCT THICKNESS	(ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. $\mu\text{mhos/cm}$	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS g/L	ORP mV	Color	Odor
	5		8.03	1.830	/	5.55	23.21	1.321	77.4	Light green	Nil
	10		8.00	1.827	/	4.20	23.20	1.323	69.2	Light green	Nil
	15		7.99	1.827	/	4.07	23.17	1.320	58.7	Cloudy	Nil

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
1	11-16-12	ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL-710-111612-01 @ 13:41
1	13:41	ice	8015M - TPH-g	VOAs	3	HCL	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2 h(\text{ft}) \times 7.48 \text{ gal./ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

Page 2 of 2

PROJECT NO.: 1003-001-300

DATE: 11-16-2012 (402012)

WELL NO.

SAMPLED BY: Frane Sosic

[illegible]

GROUNDWATER SAMPLING LOG

PAGE 1 of 2

PROJECT NAME: CENCO
PROJECT NO.: 1003-001-300
DATE: 11-16-2012 4Q2012

WELL NO. MW-711 Hospital
SAMPLED BY: Frane Susic

Well Notes:
WELL CONDITION:

Very good

WEATHER CONDITIONS:
Mostly sunny (27.2°F)

PURGING AND SAMPLING EQUIPMENT:
YSI 556
Interface probe (200')

WELL INFORMATION		
TOP OF CASING ELEV.		(ft.)
WELL DIAMETER		(inches)
DEPTH OF WELL	130.00	(ft.)
DEPTH TO WATER	102.17	(ft.)
HEIGHT OF WATER COLUMN	27.83	(ft.)
CASING VOLUME*	Hgt. x 0.66 Gal./Ft. = 18.3678	(gal)
PURGE VOLUME	x 3 = 55.1034	(gal)
PRODUCT THICKNESS		(ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS 3/L	ORP mV	Color	Odor
	5		7.90	2.002	/	4.39	23.40	1.121	-115.1	Dark grey	Strong
	10		7.89	2.021	/	3.92	23.26	1.126	-96.3	Dark grey	Strong
	15		7.88	2.020	/	3.50	23.21	1.125	-88.4	Grey	Strong

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
1	11-16-12	ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL-711-11/16/12-01 @ 15:27
1	15:27	ice	8015M - TPH-g	VOAs	3	HCL	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(\text{ft}) \times 7.48 \text{ gal/ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

Page 2 of 2

PROJECT NO.: 1003-001-300

DATE: 11.16.2012 (4Q2012)

WELL NO. _____

SAMPLED BY: Frane Sosic

[illegible]

GROUNDWATER SAMPLING LOG

PAGE 1 of 2

PROJECT NAME: CENCO
PROJECT NO.: 1003-001-300
DATE: 11.19.12 4Q2012

WELL NO. MW-712 Hospital
SAMPLED BY: Frane Sasic

Well Notes:

WELL CONDITION:

Very good

WEATHER CONDITIONS:

Mostly sunny (~72°)

PURGING AND SAMPLING EQUIPMENT:

YSI 556

Interface probe (200')

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER	(inches)
DEPTH OF WELL	130.00 (ft.)
DEPTH TO WATER	99.19 (ft.)
HEIGHT OF WATER COLUMN	30.81 (ft.)
CASING VOLUME*	Hgt. x .66 Gal./Ft. = 20.3346 (gal)
PURGE VOLUME	x 3 = 61.0038 (gal)
PRODUCT THICKNESS	(ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. $\mu\text{S/cm}$	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS μS	ORP mV	Color	Odor
645	5	VAC TRUCK	7.90	1.711	/	9.38	23.46	1.112	118.9	Light gray	Strong
705	10	↓	7.86	1.745	/	4.45	23.50	1.133	9.6	Cloudy	Strong
723	15	↓	7.84	1.743	/	3.61	23.44	1.134	-16.7	Cloudy	Strong

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
1	11.19.12	ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL-712 11/19/12 01 @ 8:37
1	857	ice	8015M - TPH-g	VOAs	3	HCL	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2 h(\text{ft}) \times 7.48 \text{ gal/ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

Page 2 of 2

PROJECT NO.: 1003-001-300

DATE: 11-19-2012 (402012)

SAMPLED BY: Frane Sosic

[illegible]

GROUNDWATER SAMPLING LOG

PAGE 1 OF 2

PROJECT NAME: CENCO
PROJECT NO.: 1003-001-300
DATE: 11-19-12 4Q2012

WELL NO. MW-713 Hospital
SAMPLED BY: Frane Sosic

Well Notes:
WELL CONDITION: GOOD

WEATHER CONDITIONS: Mostly sunny (~73°F)

PURGING AND SAMPLING EQUIPMENT:
YSI 556
Interface probe (200')

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER 4"	(inches)
DEPTH OF WELL 130.00	(ft.)
DEPTH TO WATER 104.81	(ft.)
HEIGHT OF WATER COLUMN 25.19	(ft.)
CASING VOLUME* Hgt. x 0.66 Gal./Ft. = 16.6254	(gal)
PURGE VOLUME x 3 = 49.8762	(gal)
PRODUCT THICKNESS	(ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (µS/cm)	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS 3/L	ORP mV	Color	Odor
	5	VAC TRUCK	7.92	1.942	/	4.66	23.72	1.258	24.5	Grey	Mild
	10	↓	7.91	1.945	/	3.41	23.73	1.272	-3.4	Light grey	Mild
	15	↓	7.80	2.006	/	3.14	23.70	1.318	-76.9	Light grey	Mild

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
1	11/19/12	ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL-713-11/19/12-01 @ 11:00
1	1100	ice	8015M - TPH-g	VOAs	3	HCL	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(\text{ft}) \times 7.48 \text{ gal/ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

Page 2 of 2

PROJECT NO.: 1003-001-300

DATE: 11-19-2012 (4Q2012)

SAMPLED BY: Frane Sosic

[illegible]

GROUNDWATER SAMPLING LOG

PAGE 1 OF 2

PROJECT NAME: CENCO
PROJECT NO.: 1003-001-300
DATE: 11-19-12 4Q2012

WELL NO. MW-714 Hospital
SAMPLED BY: Frane Sasic

Well Notes:

WELL CONDITION:

Very good

WEATHER CONDITIONS:

Mostly sunny (~73°F)

PURGING AND SAMPLING EQUIPMENT:

YSI 556

Interface probe (200')

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER 4"	(inches)
DEPTH OF WELL 130.00	(ft.)
DEPTH TO WATER 105.70	(ft.)
HEIGHT OF WATER COLUMN 24.30	(ft.)
CASING VOLUME* Hgt. x .66 Gal./Ft. = 16.038	(gal)
PURGE VOLUME x 3 = 48.114	(gal)
PRODUCT THICKNESS	(ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. $\mu\text{S/cm}$	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS g/L	ORP mV	Color	Odor
	5	VAC TRUCK	7.70	2.368	/	8.34	23.11	1.537	-49.2	Cloudy	Hill
	10		7.82	2.509	/	4.20	23.07	1.629	-67.5	Cloudy	Hill
	15		7.81	2.506	/	3.65	23.08	1.630	-81.0	Cloudy	Hill

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
1	11-19-12	ice	8:260B - VOCs + Oxys	VOAs	3	HCL	LL-714-111912-01 @ 12:47
1	12:47	ice	8:015M - TPH-g	VOAs	3	HCL	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2 h (\text{ft}) \times 7.48 \text{ gal./ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

Page 2 of 2

PROJECT NO.: 1003-001-300

DATE: 11-19-2012 (4Q2012)

714

SAMPLED BY: Frane Sosic

[illegible]

GROUNDWATER SAMPLING LOG

PROJECT NAME: CENCO
 PROJECT NO.: 1003-001-300
 DATE: 11-19-12 4Q2012

WELL NO. MW-715 Hospital
 SAMPLED BY: Frane Sosic

Well Notes:
 WELL CONDITION:

Very good

WEATHER CONDITIONS:
 Mostly sunny (~73°F)

PURGING AND SAMPLING EQUIPMENT:
 YSI 556
 Interface probe (200')

WELL INFORMATION	
TOP OF CASING ELEV.	(ft.)
WELL DIAMETER 4"	(inches)
DEPTH OF WELL 130.00	(ft.)
DEPTH TO WATER 97.65	(ft.)
HEIGHT OF WATER COLUMN 32.35	(ft.)
CASING VOLUME* Hgt. x .66 Gal./Ft. = 21.351	(gal)
PURGE VOLUME x 3 = 64.053	(gal)
PRODUCT THICKNESS	(ft.)

PURGE DATA											
Time:	Purge Volume (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (s/cm)	Turbidity NTUs	DO mg/L	Temperature (F/C)	TDS g/L	ORP mV	Color	Odor
	5		7.81	2.009	/	6.82	22.58	1.302	-68.2	Cloudy	Sharp/Sour
	10		7.80	1.408	/	3.46	22.80	1.112	-96.5	Cloudy	-11-
	15		7.83	1.546	/	3.50	22.95	1.005	-101.0	Cloudy	-11-

Sample No.	Sample Time	Packing	Analyses	Container	Quantity	Preservative	NOTES:
1	11-19-12	ice	8260B - VOCs + Oxys	VOAs	3	HCL	LL_715_111912_01 @ 15:26
1	1526	ice	8015M - TPH-g	VOAs	3	HCL	

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2 h(\text{ft}) \times 7.48 \text{ gal/ft.}^3$

4" well = 0.66 Gal./Foot

2" well = 0.163 Gal./Foot

Page 2 of 2

PROJECT NO.: 1003-001-300

DATE: 11-19-2012 (4Q2012)

715

SAMPLED BY: Frane Sosic

[illegible]

Appendix B



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

02 November 2012

Jeremy Squire
Murex
15375 Barranca Parkway, Suite K-101
Irvine, CA 92861
RE: Cenco

Enclosed are the results of analyses for samples received by the laboratory on 10/29/12 15:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Wendy Hsiao
Project Manager



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/02/12 16:41

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LL_14A_102912_01	T121960-01	Water	10/26/12 10:37	10/29/12 15:45
LL_14B_102912_01	T121960-02	Water	10/26/12 13:20	10/29/12 15:45
LL_14C_102912_01	T121960-03	Water	10/26/12 15:36	10/29/12 15:45
LL_TB_102912	T121960-04	Water	10/26/12 00:00	10/29/12 15:45

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Wendy Hsiao, Project Manager



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/02/12 16:41

LL_14A_102912_01

T121960-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	3800	50	ug/l	1	2103017	10/30/12	10/31/12	EPA 8015C
Surrogate: 4-Bromofluorobenzene		79.8 %	65-135		"	"	"	"

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2103015	10/30/12	10/30/12	EPA 8260B
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	3.0	1.0	"	"	"	"	"	"
sec-Butylbenzene	1.2	1.0	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Wendy Hsiao

Wendy Hsiao, Project Manager



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/02/12 16:41

LL_14A_102912_01
T121960-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,2-Dichloropropane	ND	1.0	ug/l	1	2103015	10/30/12	10/30/12	EPA 8260B
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	7.0	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	51	1.0	"	"	"	"	"	"
n-Propylbenzene	22	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	42	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	120	1.0	"	"	"	"	"	"
Vinyl chloride	4.4	1.0	"	"	"	"	"	"
Benzene	4500	50	"	100	"	"	"	"
Toluene	5.1	0.50	"	1	"	"	"	"
Ethylbenzene	150	0.50	"	"	"	"	"	"
m,p-Xylene	240	1.0	"	"	"	"	"	"
o-Xylene	110	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"
Tert-butyl alcohol	ND	10	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao

Wendy Hsiao, Project Manager



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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/02/12 16:41

LL_14A_102912_01
T121960-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Di-isopropyl ether	ND	2.0	ug/l	1	2103015	10/30/12	10/30/12	EPA 8260B
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"
Methyl tert-butyl ether	1.5	1.0	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene		112 %	83.5-119		"	"	"	"
Surrogate: Dibromofluoromethane		85.2 %	81-136		"	"	"	"
Surrogate: Toluene-d8		109 %	88.8-117		"	"	"	"

SunStar Laboratories, Inc.

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Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 11/02/12 16:41
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LL_14B_102912_01
T121960-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	52	50	ug/l	1	2103017	10/30/12	10/31/12	EPA 8015C	
Surrogate: 4-Bromofluorobenzene	54.3 %	65-135	"	"	"	"	"	"	S-03

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2103015	10/30/12	10/30/12	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	1.6	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	31	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	7.4	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	1.6	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	

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Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/02/12 16:41

LL_14B_102912_01
T121960-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,3-Dichloropropane	ND	1.0	ug/l	1	2103015	10/30/12	10/30/12	EPA 8260B	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	20	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	4.3	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	82	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	1.8	1.0	"	"	"	"	"	"	
Vinyl chloride	1.9	1.0	"	"	"	"	"	"	
Benzene	6.0	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	1.6	0.50	"	"	"	"	"	"	
m,p-Xylene	4.8	1.0	"	"	"	"	"	"	
o-Xylene	0.89	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	

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Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/02/12 16:41

LL_14B_102912_01
T121960-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Ethyl tert-butyl ether	ND	2.0	ug/l	1	2103015	10/30/12	10/30/12	EPA 8260B
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene		101 %	83.5-119		"	"	"	"
Surrogate: Dibromofluoromethane		87.8 %	81-136		"	"	"	"
Surrogate: Toluene-d8		113 %	88.8-117		"	"	"	"

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Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 11/02/12 16:41
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LL_14C_102912_01
T121960-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	ND	50	ug/l	1	2103017	10/30/12	10/31/12	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		54.5 %	65-135		"	"	"	"	S-03

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2103015	10/30/12	10/30/12	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	2.6	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	8.4	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	

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Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/02/12 16:41

LL_14C_102912_01
T121960-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,3-Dichloropropane	ND	1.0	ug/l	1	2103015	10/30/12	10/30/12	EPA 8260B
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	ND	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	6.1	1.0	"	"	"	"	"	"
n-Propylbenzene	ND	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
Vinyl chloride	2.6	1.0	"	"	"	"	"	"
Benzene	0.75	0.50	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"
Tert-butyl alcohol	ND	10	"	"	"	"	"	"

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Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/02/12 16:41

LL_14C_102912_01
T121960-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Di-isopropyl ether	ND	2.0	ug/l	1	2103015	10/30/12	10/30/12	EPA 8260B
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene		104 %	83.5-119		"	"	"	"
Surrogate: Dibromofluoromethane		88.4 %	81-136		"	"	"	"
Surrogate: Toluene-d8		114 %	88.8-117		"	"	"	"

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Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/02/12 16:41

LL_TB_102912
T121960-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2103015	10/30/12	10/30/12	EPA 8260B
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"

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Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/02/12 16:41

LL_TB_102912
T121960-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

cis-1,3-Dichloropropene	ND	0.50	ug/l	1	2103015	10/30/12	10/30/12	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Wendy Hsiao

Wendy Hsiao, Project Manager



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/02/12 16:41

LL_TB_102912
T121960-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	ug/l	1	2103015	10/30/12	10/30/12	EPA 8260B	
Surrogate: 4-Bromofluorobenzene	98.4 %	83.5-119			"	"	"	"	
Surrogate: Dibromofluoromethane	89.6 %	81-136			"	"	"	"	
Surrogate: Toluene-d8	115 %	88.8-117			"	"	"	"	

SunStar Laboratories, Inc.

Wendy Hsiao, Project Manager

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Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 11/02/12 16:41
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Purgeable Petroleum Hydrocarbons by EPA 8015C - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2103017 - EPA 5030 GC

Blank (2103017-BLK1)				Prepared: 10/30/12 Analyzed: 10/31/12						
C6-C12 (GRO)	ND	50	ug/l							
Surrogate 4-Bromofluorobenzene	65.2		"	100		65.2	65-135			
LCS (2103017-BS1)				Prepared: 10/30/12 Analyzed: 10/31/12						
C6-C12 (GRO)	6030	50	ug/l	5500		110	75-125			
Surrogate 4-Bromofluorobenzene	82.7		"	100		82.7	65-135			
Matrix Spike (2103017-MS1)				Source: T121960-01		Prepared: 10/30/12 Analyzed: 10/31/12				
C6-C12 (GRO)	7220	50	ug/l	5500	3780	62.5	65-135			QM-05
Surrogate 4-Bromofluorobenzene	76.2		"	100		76.2	65-135			
Matrix Spike Dup (2103017-MSD1)				Source: T121960-01		Prepared: 10/30/12 Analyzed: 10/31/12				
C6-C12 (GRO)	7750	50	ug/l	5500	3780	72.2	65-135	7.11	20	
Surrogate 4-Bromofluorobenzene	75.7		"	100		75.7	65-135			

SunStar Laboratories, Inc.

Wendy Hsiao, Project Manager

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Murex	Project: Cenco	Reported:
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	11/02/12 16:41
Irvine CA, 92861	Project Manager: Jeremy Squire	

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2103015 - EPA 5030 GCMS

Blank (2103015-BLK1)

Prepared & Analyzed: 10/30/12

Bromobenzene	ND	1.0	ug/l
Bromochloromethane	ND	1.0	"
Bromodichloromethane	ND	1.0	"
Bromoform	ND	1.0	"
Bromomethane	ND	1.0	"
n-Butylbenzene	ND	1.0	"
sec-Butylbenzene	ND	1.0	"
tert-Butylbenzene	ND	1.0	"
Carbon tetrachloride	ND	0.50	"
Chlorobenzene	ND	1.0	"
Chloroethane	ND	1.0	"
Chloroform	ND	1.0	"
Chloromethane	ND	1.0	"
2-Chlorotoluene	ND	1.0	"
4-Chlorotoluene	ND	1.0	"
Dibromochloromethane	ND	1.0	"
1,2-Dibromo-3-chloropropane	ND	1.0	"
1,2-Dibromoethane (EDB)	ND	1.0	"
Dibromomethane	ND	1.0	"
1,2-Dichlorobenzene	ND	1.0	"
1,3-Dichlorobenzene	ND	1.0	"
1,4-Dichlorobenzene	ND	1.0	"
Dichlorodifluoromethane	ND	0.50	"
1,1-Dichloroethane	ND	1.0	"
1,2-Dichloroethane	ND	0.50	"
1,1-Dichloroethene	ND	1.0	"
cis-1,2-Dichloroethene	ND	1.0	"
trans-1,2-Dichloroethene	ND	1.0	"
1,2-Dichloropropane	ND	1.0	"
1,3-Dichloropropane	ND	1.0	"
2,2-Dichloropropane	ND	1.0	"
1,1-Dichloropropene	ND	1.0	"
cis-1,3-Dichloropropene	ND	0.50	"
trans-1,3-Dichloropropene	ND	0.50	"
Hexachlorobutadiene	ND	1.0	"
Isopropylbenzene	ND	1.0	"

SunStar Laboratories, Inc.

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Wendy Hsiao

Wendy Hsiao, Project Manager



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Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 11/02/12 16:41
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2103015 - EPA 5030 GCMS

Blank (2103015-BLK1)

Prepared & Analyzed: 10/30/12

p-Isopropyltoluene	ND	1.0	ug/l							
Methylene chloride	ND	1.0	"							
Naphthalene	ND	1.0	"							
n-Propylbenzene	ND	1.0	"							
Styrene	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	1.0	"							
1,1,1,2-Tetrachloroethane	ND	1.0	"							
Tetrachloroethene	ND	1.0	"							
1,2,3-Trichlorobenzene	ND	1.0	"							
1,2,4-Trichlorobenzene	ND	1.0	"							
1,1,2-Trichloroethane	ND	1.0	"							
1,1,1-Trichloroethane	ND	1.0	"							
Trichloroethene	ND	1.0	"							
Trichlorofluoromethane	ND	1.0	"							
1,2,3-Trichloropropane	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
Vinyl chloride	ND	0.50	"							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
m,p-Xylene	ND	1.0	"							
o-Xylene	ND	0.50	"							
Tert-amyl methyl ether	ND	2.0	"							
Tert-butyl alcohol	ND	10	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
Methyl tert-butyl ether	ND	1.0	"							
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"							
Surrogate 4-Bromofluorobenzene	7.91		"	8.00		98.9	83.5-119			
Surrogate Dibromofluoromethane	6.74		"	8.00		84.2	81-136			
Surrogate Toluene-d8	9.35		"	8.00		117	88.8-117			

SunStar Laboratories, Inc.

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Wendy Hsiao

Wendy Hsiao, Project Manager



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Murex	Project: Cenco	Reported:
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	11/02/12 16:41
Irvine CA, 92861	Project Manager: Jeremy Squire	

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2103015 - EPA 5030 GCMS

LCS (2103015-BS1)

Prepared & Analyzed: 10/30/12

Chlorobenzene	21.7	1.0	ug/l	20.0		109	75-125			
1,1-Dichloroethene	22.4	1.0	"	20.0		112	75-125			
Trichloroethene	20.1	1.0	"	20.0		100	75-125			
Benzene	22.8	0.50	"	20.0		114	75-125			
Toluene	22.0	0.50	"	20.0		110	75-125			
Surrogate 4-Bromofluorobenzene	8.50		"	8.00		106	83.5-119			
Surrogate Dibromofluoromethane	7.34		"	8.00		91.8	81-136			
Surrogate Toluene-d8	8.51		"	8.00		106	88.8-117			

Matrix Spike (2103015-MS1)

Source: T121960-02

Prepared & Analyzed: 10/30/12

Chlorobenzene	21.8	1.0	ug/l	20.0	ND	109	75-125			
1,1-Dichloroethene	43.9	1.0	"	20.0	30.7	66.0	75-125			QM-07
Trichloroethene	20.6	1.0	"	20.0	81.9	NR	75-125			QM-07
Benzene	23.2	0.50	"	20.0	6.03	86.0	75-125			
Toluene	21.5	0.50	"	20.0	ND	107	75-125			
Surrogate 4-Bromofluorobenzene	8.49		"	8.00		106	83.5-119			
Surrogate Dibromofluoromethane	8.04		"	8.00		100	81-136			
Surrogate Toluene-d8	8.30		"	8.00		104	88.8-117			

Matrix Spike Dup (2103015-MSD1)

Source: T121960-02

Prepared: 10/30/12 Analyzed: 10/31/12

Chlorobenzene	23.4	1.0	ug/l	20.0	ND	117	75-125	6.96	20	
1,1-Dichloroethene	45.1	1.0	"	20.0	30.7	72.2	75-125	2.79	20	QM-07
Trichloroethene	22.2	1.0	"	20.0	81.9	NR	75-125	7.81	20	QM-07
Benzene	23.9	0.50	"	20.0	6.03	89.6	75-125	2.97	20	
Toluene	23.6	0.50	"	20.0	ND	118	75-125	9.58	20	
Surrogate 4-Bromofluorobenzene	8.50		"	8.00		106	83.5-119			
Surrogate Dibromofluoromethane	7.87		"	8.00		98.4	81-136			
Surrogate Toluene-d8	8.42		"	8.00		105	88.8-117			

SunStar Laboratories, Inc.

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Wendy Hsiao

Wendy Hsiao, Project Manager

Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 11/02/12 16:41
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Notes and Definitions

S-03 The surrogate recovery was below acceptance criteria in the sample because of a possible matrix effect. The surrogate recovery was within acceptance criteria in the method blank and LCS.

QM-07 The spike recovery and or RPD was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to possible matrix interference. The LCS was within acceptance criteria. The data is acceptable as no negative impact on data is expected.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager

Chain of Custody Record

Date: 10/29/12

Page: 1 OF 1

Project Name: CENCO

Collector: Frane Sosic

Client Project #: 1003-001-300

Batch #: T121960

EDF #: _____

[illegible]

Sample disposal Instructions: Disposal @ \$2.00 each _____ Return to client _____ Pickup _____

SAMPLE RECEIVING REVIEW SHEET

BATCH # T121960

Client Name: Murex

Project: Cenco

Received by: Jan

Date/Time Received: 10/22/12 1545

Delivered by: ☐ Client ☒ SunStar Courier ☐ GSO ☐ FedEx ☐ Other _____

Total number of coolers received 1 Temp criteria = 6°C > 0°C (no frozen containers)

Temperature: cooler #1 2.8 °C +/- the CF (- 0.2°C) = 2.6 °C corrected temperature

cooler #2 _____ °C +/- the CF (- 0.2°C) = _____ °C corrected temperature

cooler #3 _____ °C +/- the CF (- 0.2°C) = _____ °C corrected temperature

Samples outside temp. but received on ice, w/in 6 hours of final sampling. ☒ Yes ☐ No* ☐ N/A

Custody Seals Intact on Cooler/Sample ☐ Yes ☐ No* ☒ N/A

Sample Containers Intact ☒ Yes ☐ No*

Sample labels match COC ID's ☒ Yes ☐ No*


Total number of containers received match COC ☒ Yes ☐ No*

Proper containers received for analyses requested on COC ☒ Yes ☐ No*

Proper preservative indicated on COC/containers for analyses requested ☒ Yes ☐ No* ☐ N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times. ☒ Yes ☐ No*

* Complete Non-Conformance Receiving Sheet if checked

Cooler/Sample Review - Initials and date  10/22/12

Comments:



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949.297.5020 Phone
949.297.5027 Fax

06 November 2012

Jeremy Squire
Murex
15375 Barranca Parkway, Suite K-101
Irvine, CA 92861
RE: Cenco

Enclosed are the results of analyses for samples received by the laboratory on 10/31/12 15:10. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Wendy Hsiao
Project Manager



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Lake Forest, California 92630
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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/06/12 10:31

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LL_15A_103012_01	T121983-01	Water	10/30/12 10:22	10/31/12 15:10
LL_15B_103012_01	T121983-02	Water	10/30/12 13:30	10/31/12 15:10
LL_15C_103012_01	T121983-03	Water	10/30/12 15:27	10/31/12 15:10
LL_16A_103112_01	T121983-04	Water	10/31/12 11:00	10/31/12 15:10
LL_16B_103112_01	T121983-05	Water	10/31/12 12:34	10/31/12 15:10
LL_16C_103112_01	T121983-06	Water	10/31/12 15:00	10/31/12 15:10
LL_TB_103112	T121983-07	Water	10/30/12 00:00	10/31/12 15:10

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Wendy Hsiao, Project Manager



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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/06/12 10:31

LL_15A_103012_01

T121983-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	4500	50	ug/l	1	2110106	11/01/12	11/02/12	EPA 8015C
Surrogate: 4-Bromofluorobenzene		116 %	65-135		"	"	"	"

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2110111	11/01/12	11/02/12	EPA 8260B
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	38	1.0	"	"	"	"	"	"
sec-Butylbenzene	7.2	1.0	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao

Wendy Hsiao, Project Manager



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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/06/12 10:31

LL_15A_103012_01
T121983-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,2-Dichloropropane	ND	1.0	ug/l	1	2110111	11/01/12	11/02/12	EPA 8260B	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	9.1	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	7.1	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	330	1.0	"	"	"	"	"	"	E
n-Propylbenzene	27	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	120	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	270	1.0	"	"	"	"	"	"	E
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	41	0.50	"	"	"	"	"	"	
Toluene	23	0.50	"	"	"	"	"	"	
Ethylbenzene	46	0.50	"	"	"	"	"	"	
m,p-Xylene	260	1.0	"	"	"	"	"	"	E
o-Xylene	75	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	120	10	"	"	"	"	"	"	

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Wendy Hsiao, Project Manager



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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/06/12 10:31

LL_15A_103012_01
T121983-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Di-isopropyl ether	ND	2.0	ug/l	1	2110111	11/01/12	11/02/12	EPA 8260B	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	39	1.0	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		118 %	83.5-119		"	"	"	"	
Surrogate: Dibromofluoromethane		93.1 %	81-136		"	"	"	"	
Surrogate: Toluene-d8		125 %	88.8-117		"	"	"	"	S-GC

SunStar Laboratories, Inc.

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Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 11/06/12 10:31
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LL_15B_103012_01
T121983-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	190	50	ug/l	1	2110106	11/01/12	11/02/12	EPA 8015C	
Surrogate: 4-Bromofluorobenzene	67.9 %	65-135	"	"	"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2110111	11/01/12	11/02/12	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	1.3	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	

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Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/06/12 10:31

LL_15B_103012_01
T121983-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,3-Dichloropropane	ND	1.0	ug/l	1	2110111	11/01/12	11/02/12	EPA 8260B
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	6.9	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	43	1.0	"	"	"	"	"	"
n-Propylbenzene	8.1	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	1.4	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	4.0	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
Benzene	9.2	0.50	"	"	"	"	"	"
Toluene	2.2	0.50	"	"	"	"	"	"
Ethylbenzene	1.5	0.50	"	"	"	"	"	"
m,p-Xylene	12	1.0	"	"	"	"	"	"
o-Xylene	2.7	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"
Tert-butyl alcohol	96	10	"	"	"	"	"	"
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"

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Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/06/12 10:31

LL_15B_103012_01
T121983-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Ethyl tert-butyl ether	ND	2.0	ug/l	1	2110111	11/01/12	11/02/12	EPA 8260B
Methyl tert-butyl ether	49	1.0	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene		102 %	83.5-119		"	"	"	"
Surrogate: Dibromofluoromethane		88.1 %	81-136		"	"	"	"
Surrogate: Toluene-d8		114 %	88.8-117		"	"	"	"

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LL_15C_103012_01
T121983-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	120	50	ug/l	1	2110106	11/01/12	11/02/12	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		62.7 %	65-135		"	"	"	"	S-03

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2110111	11/01/12	11/02/12	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	

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Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/06/12 10:31

LL_15C_103012_01
T121983-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,2-Dichloropropane	ND	1.0	ug/l	1	2110111	11/01/12	11/02/12	EPA 8260B
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	ND	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	9.9	1.0	"	"	"	"	"	"
n-Propylbenzene	ND	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	2.9	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	6.6	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
Benzene	16	0.50	"	"	"	"	"	"
Toluene	4.9	0.50	"	"	"	"	"	"
Ethylbenzene	3.2	0.50	"	"	"	"	"	"
m,p-Xylene	36	1.0	"	"	"	"	"	"
o-Xylene	7.1	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/06/12 10:31

LL_15C_103012_01
T121983-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Tert-butyl alcohol	ND	10	ug/l	1	2110111	11/01/12	11/02/12	EPA 8260B	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	3.4	1.0	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.4 %	83.5-119		"	"	"	"	
Surrogate: Dibromofluoromethane		92.9 %	81-136		"	"	"	"	
Surrogate: Toluene-d8		112 %	88.8-117		"	"	"	"	

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Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 11/06/12 10:31
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LL_16A_103112_01
T121983-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	86	50	ug/l	1	2110106	11/01/12	11/02/12	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		59.1 %	65-135		"	"	"	"	S-03

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2110111	11/01/12	11/02/12	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	

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Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/06/12 10:31

LL_16A_103112_01
T121983-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,2-Dichloropropane	ND	1.0	ug/l	1	2110111	11/01/12	11/02/12	EPA 8260B
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	1.4	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	3.9	1.0	"	"	"	"	"	"
n-Propylbenzene	ND	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
Benzene	6.9	0.50	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao

Wendy Hsiao, Project Manager

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/06/12 10:31

LL_16A_103112_01
T121983-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Tert-butyl alcohol	ND	10	ug/l	1	2110111	11/01/12	11/02/12	EPA 8260B
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene		99.6 %	83.5-119		"	"	"	"
Surrogate: Dibromofluoromethane		95.2 %	81-136		"	"	"	"
Surrogate: Toluene-d8		114 %	88.8-117		"	"	"	"

SunStar Laboratories, Inc.

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Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/06/12 10:31

LL_16B_103112_01
T121983-05 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	58	50	ug/l	1	2110106	11/01/12	11/02/12	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		59.7 %	65-135		"	"	"	"	S-03

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2110111	11/01/12	11/02/12	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	4.2	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	6.6	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Wendy Hsiao

Wendy Hsiao, Project Manager

Murex
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Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/06/12 10:31

LL_16B_103112_01
T121983-05 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,3-Dichloropropane	ND	1.0	ug/l	1	2110111	11/01/12	11/02/12	EPA 8260B
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	ND	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"
n-Propylbenzene	ND	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
Vinyl chloride	15	1.0	"	"	"	"	"	"
Benzene	13	0.50	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"
Tert-butyl alcohol	ND	10	"	"	"	"	"	"

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Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/06/12 10:31

LL_16B_103112_01
T121983-05 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Di-isopropyl ether	ND	2.0	ug/l	1	2110111	11/01/12	11/02/12	EPA 8260B
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene	95.5 %	83.5-119	"	"	"	"	"	"
Surrogate: Dibromofluoromethane	95.8 %	81-136	"	"	"	"	"	"
Surrogate: Toluene-d8	111 %	88.8-117	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 11/06/12 10:31
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LL_16C_103112_01
T121983-06 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	140	50	ug/l	1	2110106	11/01/12	11/02/12	EPA 8015C
Surrogate: 4-Bromofluorobenzene	66.7 %	65-135	"	"	"	"	"	"

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2110111	11/01/12	11/02/12	EPA 8260B
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	4.4	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	8.0	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	16	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	6.7	1.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/06/12 10:31

LL_16C_103112_01
T121983-06 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,3-Dichloropropane	ND	1.0	ug/l	1	2110111	11/01/12	11/02/12	EPA 8260B
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	ND	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"
n-Propylbenzene	ND	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
Vinyl chloride	50	1.0	"	"	"	"	"	"
Benzene	10	0.50	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"
Tert-butyl alcohol	ND	10	"	"	"	"	"	"

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Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/06/12 10:31

LL_16C_103112_01
T121983-06 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Di-isopropyl ether	ND	2.0	ug/l	1	2110111	11/01/12	11/02/12	EPA 8260B
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene		96.1 %	83.5-119		"	"	"	"
Surrogate: Dibromofluoromethane		94.4 %	81-136		"	"	"	"
Surrogate: Toluene-d8		114 %	88.8-117		"	"	"	"

SunStar Laboratories, Inc.

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Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/06/12 10:31

LL_TB_103112
T121983-07 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2110111	11/01/12	11/02/12	EPA 8260B
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"

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Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/06/12 10:31

LL_TB_103112
T121983-07 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

cis-1,3-Dichloropropene	ND	0.50	ug/l	1	2110111	11/01/12	11/02/12	EPA 8260B
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	ND	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"
n-Propylbenzene	ND	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
Benzene	ND	0.50	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"
Tert-butyl alcohol	ND	10	"	"	"	"	"	"
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Wendy Hsiao

Wendy Hsiao, Project Manager



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949.297.5020 Phone
949.297.5027 Fax

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/06/12 10:31

LL_TB_103112
T121983-07 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	ug/l	1	2110111	11/01/12	11/02/12	EPA 8260B	
Surrogate: 4-Bromofluorobenzene	94.0 %	83.5-119			"	"	"	"	
Surrogate: Dibromofluoromethane	93.9 %	81-136			"	"	"	"	
Surrogate: Toluene-d8	114 %	88.8-117			"	"	"	"	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Wendy Hsiao, Project Manager



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Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 11/06/12 10:31
--	--	-----------------------------

Purgeable Petroleum Hydrocarbons by EPA 8015C - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2110106 - EPA 5030 GC

Blank (2110106-BLK1)				Prepared: 11/01/12 Analyzed: 11/02/12						
C6-C12 (GRO)	ND	50	ug/l							
Surrogate 4-Bromofluorobenzene	65.1		"	100		65.1	65-135			
LCS (2110106-BS1)				Prepared: 11/01/12 Analyzed: 11/02/12						
C6-C12 (GRO)	5740	50	ug/l	5500		104	75-125			
Surrogate 4-Bromofluorobenzene	90.3		"	100		90.3	65-135			
Matrix Spike (2110106-MS1)				Source: T121983-01		Prepared: 11/01/12 Analyzed: 11/02/12				
C6-C12 (GRO)	7590	50	ug/l	5500	4460	57.0	65-135			QM-02
Surrogate 4-Bromofluorobenzene	93.2		"	100		93.2	65-135			
Matrix Spike Dup (2110106-MSD1)				Source: T121983-01		Prepared: 11/01/12 Analyzed: 11/02/12				
C6-C12 (GRO)	7260	50	ug/l	5500	4460	51.0	65-135	4.48	20	QM-02
Surrogate 4-Bromofluorobenzene	84.8		"	100		84.8	65-135			

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager



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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/06/12 10:31

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2110111 - EPA 5030 GCMS

Blank (2110111-BLK1)

Prepared: 11/01/12 Analyzed: 11/02/12

Bromobenzene	ND	1.0	ug/l
Bromochloromethane	ND	1.0	"
Bromodichloromethane	ND	1.0	"
Bromoform	ND	1.0	"
Bromomethane	ND	1.0	"
n-Butylbenzene	ND	1.0	"
sec-Butylbenzene	ND	1.0	"
tert-Butylbenzene	ND	1.0	"
Carbon tetrachloride	ND	0.50	"
Chlorobenzene	ND	1.0	"
Chloroethane	ND	1.0	"
Chloroform	ND	1.0	"
Chloromethane	ND	1.0	"
2-Chlorotoluene	ND	1.0	"
4-Chlorotoluene	ND	1.0	"
Dibromochloromethane	ND	1.0	"
1,2-Dibromo-3-chloropropane	ND	1.0	"
1,2-Dibromoethane (EDB)	ND	1.0	"
Dibromomethane	ND	1.0	"
1,2-Dichlorobenzene	ND	1.0	"
1,3-Dichlorobenzene	ND	1.0	"
1,4-Dichlorobenzene	ND	1.0	"
Dichlorodifluoromethane	ND	0.50	"
1,1-Dichloroethane	ND	1.0	"
1,2-Dichloroethane	ND	0.50	"
1,1-Dichloroethene	ND	1.0	"
cis-1,2-Dichloroethene	ND	1.0	"
trans-1,2-Dichloroethene	ND	1.0	"
1,2-Dichloropropane	ND	1.0	"
1,3-Dichloropropane	ND	1.0	"
2,2-Dichloropropane	ND	1.0	"
1,1-Dichloropropene	ND	1.0	"
cis-1,3-Dichloropropene	ND	0.50	"
trans-1,3-Dichloropropene	ND	0.50	"
Hexachlorobutadiene	ND	1.0	"
Isopropylbenzene	ND	1.0	"

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager



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Murex	Project: Cenco	Reported:
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	11/06/12 10:31
Irvine CA, 92861	Project Manager: Jeremy Squire	

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2110111 - EPA 5030 GCMS

Blank (2110111-BLK1)

Prepared: 11/01/12 Analyzed: 11/02/12

p-Isopropyltoluene	ND	1.0	ug/l							
Methylene chloride	ND	1.0	"							
Naphthalene	ND	1.0	"							
n-Propylbenzene	ND	1.0	"							
Styrene	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	1.0	"							
1,1,1,2-Tetrachloroethane	ND	1.0	"							
Tetrachloroethene	ND	1.0	"							
1,2,3-Trichlorobenzene	ND	1.0	"							
1,2,4-Trichlorobenzene	ND	1.0	"							
1,1,2-Trichloroethane	ND	1.0	"							
1,1,1-Trichloroethane	ND	1.0	"							
Trichloroethene	ND	1.0	"							
Trichlorofluoromethane	ND	1.0	"							
1,2,3-Trichloropropane	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
Vinyl chloride	ND	1.0	"							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
m,p-Xylene	ND	1.0	"							
o-Xylene	ND	0.50	"							
Tert-amyl methyl ether	ND	2.0	"							
Tert-butyl alcohol	ND	10	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
Methyl tert-butyl ether	ND	1.0	"							
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"							
Surrogate 4-Bromofluorobenzene	7.35		"	8.00		91.9	83.5-119			
Surrogate Dibromofluoromethane	7.43		"	8.00		92.9	81-136			
Surrogate Toluene-d8	9.28		"	8.00		116	88.8-117			

SunStar Laboratories, Inc.

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Wendy Hsiao

Wendy Hsiao, Project Manager



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Murex	Project: Cenco	Reported:
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	11/06/12 10:31
Irvine CA, 92861	Project Manager: Jeremy Squire	

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2110111 - EPA 5030 GCMS

LCS (2110111-BS1)

Prepared: 11/01/12 Analyzed: 11/03/12

Chlorobenzene	21.9	1.0	ug/l	20.0		110	75-125			
1,1-Dichloroethene	19.2	1.0	"	20.0		96.2	75-125			
Trichloroethene	18.2	1.0	"	20.0		91.2	75-125			
Benzene	23.3	0.50	"	20.0		117	75-125			
Toluene	20.6	0.50	"	20.0		103	75-125			
Surrogate 4-Bromofluorobenzene	8.01		"	8.00		100	83.5-119			
Surrogate Dibromofluoromethane	9.62		"	8.00		120	81-136			
Surrogate Toluene-d8	8.44		"	8.00		106	88.8-117			

Matrix Spike (2110111-MS1)

Source: T121983-01

Prepared: 11/01/12 Analyzed: 11/03/12

Chlorobenzene	23.0	1.0	ug/l	20.0	ND	115	75-125			
1,1-Dichloroethene	16.9	1.0	"	20.0	ND	84.4	75-125			
Trichloroethene	19.2	1.0	"	20.0	ND	96.1	75-125			
Benzene	79.1	0.50	"	20.0	41.0	190	75-125			QM-07
Toluene	52.1	0.50	"	20.0	23.4	144	75-125			QM-07
Surrogate 4-Bromofluorobenzene	9.14		"	8.00		114	83.5-119			
Surrogate Dibromofluoromethane	8.36		"	8.00		104	81-136			
Surrogate Toluene-d8	9.14		"	8.00		114	88.8-117			

Matrix Spike Dup (2110111-MSD1)

Source: T121983-01

Prepared: 11/01/12 Analyzed: 11/03/12

Chlorobenzene	24.1	1.0	ug/l	20.0	ND	120	75-125	4.67	20	
1,1-Dichloroethene	16.2	1.0	"	20.0	ND	81.0	75-125	4.05	20	
Trichloroethene	19.2	1.0	"	20.0	ND	96.0	75-125	0.156	20	
Benzene	74.3	0.50	"	20.0	41.0	166	75-125	6.32	20	QM-07
Toluene	52.1	0.50	"	20.0	23.4	144	75-125	0.0384	20	QM-07
Surrogate 4-Bromofluorobenzene	10.5		"	8.00		131	83.5-119			S-GC
Surrogate Dibromofluoromethane	7.96		"	8.00		99.5	81-136			
Surrogate Toluene-d8	9.40		"	8.00		118	88.8-117			S-GC

SunStar Laboratories, Inc.

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Wendy Hsiao

Wendy Hsiao, Project Manager

Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 11/06/12 10:31
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Notes and Definitions

S-GC Surrogate recovery outside of established control limits. The data was accepted based on valid recovery of the remaining surrogate(s).

S-03 The surrogate recovery was below acceptance criteria in the sample because of a possible matrix effect. The surrogate recovery was within acceptance criteria in the method blank and LCS.

QM-07 The spike recovery and or RPD was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

QM-02 The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.

E The concentration indicated for this analyte is above the calibration range of the instrument. This value should be considered as an estimate as the actual value may be higher.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

SunStar Laboratories, Inc.



Wendy Hsiao, Project Manager

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Chain of Custody Record

Date: 10.31.2012

Page: 1 OF 1

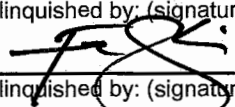
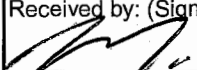
Project Name: CENCO

Collector: Frane Sosic

Client Project #: 1003-001-300

Batch #: T121983

EDF #: _____

Sample ID	Date Sampled	Time	Sample Type	TPHg (8015 M)	VOCs (8260 B)														Total # of containers	Comments/Preservative	Laboratory ID #
LL-15A-103012-01	10-30-12	10:22	GW	X	X														6		01
LL-15B-103012-01	10-30-12	13:30	GW	X	X														6		02
LL-15C-103012-01	10-30-12	15:27	GW	X	X														6		03
LL-16A-103112-01	10-31-12	11:00	GW	X	X														6	4 F.S.	04
LL-16B-103112-01	10-31-12	12:34	GW	X	X														6		05
LL-16C-103112-01	10-31-12	15:00	GW	X	X														6		06
LL-TB-103112			Water		X														2		07
Relinquished by: (signature)	Date / Time		Received by: (Sign / Date / Time)								Total # of containers		36		Notes						
 F. Seik	10-31-12 15:10		 10/31/12 1510								Chain of Custody seals		N								
Relinquished by: (signature)	Date / Time		Received by: (Sign / Date / Time)								Seals intact? Y/N/NA		N/A								
											Received good condition/cold		Y								
Relinquished by: (signature)	Date / Time		Received by: (Sign / Date / Time)								Turn around time:		Standard								

Sample disposal Instructions: Disposal @ \$2.00 each _____ Return to client _____ Pickup _____

SAMPLE RECEIVING REVIEW SHEET

BATCH # T 121983

Client Name: Murex

Project: Cenco

Received by: Dan M

Date/Time Received: 10/31/12 1510

Delivered by: ☐ Client ☒ SunStar Courier ☐ GSO ☐ FedEx ☐ Other _____

Total number of coolers received 1 Temp criteria = 6°C > 0°C (no frozen containers)

Temperature: cooler #1 6.2 °C +/- the CF (- 0.2°C) = 6.0 °C corrected temperature

cooler #2 _____ °C +/- the CF (- 0.2°C) = _____ °C corrected temperature

cooler #3 _____ °C +/- the CF (- 0.2°C) = _____ °C corrected temperature

Samples outside temp. but received on ice, w/in 6 hours of final sampling. ☒ Yes ☐ No* ☐ N/A

Custody Seals Intact on Cooler/Sample ☐ Yes ☐ No* ☒ N/A

Sample Containers Intact ☒ Yes ☐ No*

Sample labels match COC ID's ☒ Yes ☐ No*

Total number of containers received match COC ☒ Yes ☐ No*

Proper containers received for analyses requested on COC ☒ Yes ☐ No*

Proper preservative indicated on COC/containers for analyses requested ☒ Yes ☐ No* ☐ N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times. ☒ Yes ☐ No*

* Complete Non-Conformance Receiving Sheet if checked

Cooler/Sample Review - Initials and date DM 10/31/12

Comments:



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Lake Forest, California 92630
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06 November 2012

Jeremy Squire
Murex
15375 Barranca Parkway, Suite K-101
Irvine, CA 92861
RE: Cenco

Enclosed are the results of analyses for samples received by the laboratory on 11/01/12 16:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Daniel Chavez For Wendy Hsiao
Project Manager



25712 Commercentre Drive
Lake Forest, California 92630
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949.297.5027 Fax

Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 11/06/12 17:26
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LL_17A_110112_01	T121994-01	Water	11/01/12 10:27	11/01/12 16:00
LL_17B_110112_01	T121994-02	Water	11/01/12 13:16	11/01/12 16:00
LL_17C_110112_01	T121994-03	Water	11/01/12 15:45	11/01/12 16:00
LL_TB_110112	T121994-04	Water	11/01/12 00:00	11/01/12 16:00

SunStar Laboratories, Inc.

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Daniel Chavez For Wendy Hsiao, Project Manager



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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/06/12 17:26

LL_17A_110112_01

T121994-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	100	50	ug/l	1	2110219	11/02/12	11/05/12	EPA 8015C
Surrogate 4-Bromofluorobenzene		85.8 %	65-135		"	"	"	"

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2110208	11/02/12	11/02/12	EPA 8260B
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	1.1	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	6.6	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Daniel Chavez For Wendy Hsiao, Project Manager



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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/06/12 17:26

LL_17A_110112_01
T121994-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,2-Dichloropropane	ND	1.0	ug/l	1	2110208	11/02/12	11/02/12	EPA 8260B
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	ND	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"
n-Propylbenzene	ND	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
Benzene	ND	0.50	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"

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Daniel Chavez For Wendy Hsiao, Project Manager



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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/06/12 17:26

LL_17A_110112_01
T121994-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Tert-butyl alcohol	12	10	ug/l	1	2110208	11/02/12	11/02/12	EPA 8260B	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	
Surrogate 4-Bromofluorobenzene		107 %	83.5-119		"	"	"	"	
Surrogate Dibromofluoromethane		108 %	81-136		"	"	"	"	
Surrogate Toluene-d8		103 %	88.8-117		"	"	"	"	

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Daniel Chavez For Wendy Hsiao, Project Manager



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Murex	Project: Cenco	Reported:
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	11/06/12 17:26
Irvine CA, 92861	Project Manager: Jeremy Squire	

LL_17B_110112_01
T121994-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	ND	50	ug/l	1	2110219	11/02/12	11/05/12	EPA 8015C	
Surrogate 4-Bromofluorobenzene		92.2 %	65-135		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2110208	11/02/12	11/05/12	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	

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Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/06/12 17:26

LL_17B_110112_01
T121994-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,2-Dichloropropane	ND	1.0	ug/l	1	2110208	11/02/12	11/05/12	EPA 8260B
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	ND	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"
n-Propylbenzene	ND	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
Benzene	ND	0.50	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"

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Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/06/12 17:26

LL_17B_110112_01
T121994-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Tert-butyl alcohol	24	10	ug/l	1	2110208	11/02/12	11/05/12	EPA 8260B	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	
Surrogate 4-Bromofluorobenzene		101 %	83.5-119		"	"	"	"	
Surrogate Dibromofluoromethane		214 %	81-136		"	"	"	"	S-GC
Surrogate Toluene-d8		75.9 %	88.8-117		"	"	"	"	S-GC

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Murex	Project: Cenco	Reported:
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	11/06/12 17:26
Irvine CA, 92861	Project Manager: Jeremy Squire	

LL_17C_110112_01
T121994-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	ND	50	ug/l	1	2110219	11/02/12	11/05/12	EPA 8015C	
Surrogate 4-Bromofluorobenzene		84.5 %	65-135		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2110208	11/02/12	11/06/12	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/06/12 17:26

LL_17C_110112_01
T121994-03 (Water)

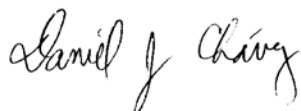
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,2-Dichloropropane	ND	1.0	ug/l	1	2110208	11/02/12	11/06/12	EPA 8260B	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	

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Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/06/12 17:26

LL_17C_110112_01
T121994-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Tert-butyl alcohol	11	10	ug/l	1	2110208	11/02/12	11/06/12	EPA 8260B
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"
Surrogate 4-Bromofluorobenzene		107 %	83.5-119		"	"	"	"
Surrogate Dibromofluoromethane		110 %	81-136		"	"	"	"
Surrogate Toluene-d8		93.2 %	88.8-117		"	"	"	"

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Murex
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Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/06/12 17:26

LL_TB_110112
T121994-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2110208	11/02/12	11/05/12	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Daniel Chavez For Wendy Hsiao, Project Manager



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/06/12 17:26

LL_TB_110112
T121994-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

cis-1,3-Dichloropropene	ND	0.50	ug/l	1	2110208	11/02/12	11/05/12	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Daniel Chavez For Wendy Hsiao, Project Manager



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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/06/12 17:26

LL_TB_110112
T121994-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	ug/l	1	2110208	11/02/12	11/05/12	EPA 8260B	
Surrogate 4-Bromofluorobenzene	98.9 %	83.5-119			"	"	"	"	
Surrogate Dibromofluoromethane	154 %	81-136			"	"	"	"	S-GC
Surrogate Toluene-d8	82.4 %	88.8-117			"	"	"	"	S-GC

SunStar Laboratories, Inc.

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Daniel Chavez For Wendy Hsiao, Project Manager



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Murex	Project: Cenco	Reported:
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	11/06/12 17:26
Irvine CA, 92861	Project Manager: Jeremy Squire	

Purgeable Petroleum Hydrocarbons by EPA 8015C - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2110219 - EPA 5030 GC										
Blank (2110219-BLK1)				Prepared: 11/02/12 Analyzed: 11/05/12						
C6-C12 (GRO)	ND	50	ug/l							
Surrogate 4-Bromofluorobenzene	115		"	100		115	65-135			
LCS (2110219-BS1)				Prepared: 11/02/12 Analyzed: 11/05/12						
C6-C12 (GRO)	5250	50	ug/l	5500		95.4	75-125			
Surrogate 4-Bromofluorobenzene	112		"	100		112	65-135			
Matrix Spike (2110219-MS1)				Source: T121994-01		Prepared: 11/02/12 Analyzed: 11/05/12				
C6-C12 (GRO)	5560	50	ug/l	5500	102	99.2	65-135			
Surrogate 4-Bromofluorobenzene	108		"	100		108	65-135			
Matrix Spike Dup (2110219-MSD1)				Source: T121994-01		Prepared: 11/02/12 Analyzed: 11/05/12				
C6-C12 (GRO)	5510	50	ug/l	5500	102	98.4	65-135	0.785	20	
Surrogate 4-Bromofluorobenzene	107		"	100		107	65-135			

SunStar Laboratories, Inc.

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Daniel Chavez For Wendy Hsiao, Project Manager



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Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	Reported:
Irvine CA, 92861	Project Manager: Jeremy Squire	11/06/12 17:26

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2110208 - EPA 5030 GCMS

Blank (2110208-BLK1)

Prepared & Analyzed: 11/02/12

Bromobenzene	ND	1.0	ug/l
Bromochloromethane	ND	1.0	"
Bromodichloromethane	ND	1.0	"
Bromoform	ND	1.0	"
Bromomethane	ND	1.0	"
n-Butylbenzene	ND	1.0	"
sec-Butylbenzene	ND	1.0	"
tert-Butylbenzene	ND	1.0	"
Carbon tetrachloride	ND	0.50	"
Chlorobenzene	ND	1.0	"
Chloroethane	ND	1.0	"
Chloroform	ND	1.0	"
Chloromethane	ND	1.0	"
2-Chlorotoluene	ND	1.0	"
4-Chlorotoluene	ND	1.0	"
Dibromochloromethane	ND	1.0	"
1,2-Dibromo-3-chloropropane	ND	1.0	"
1,2-Dibromoethane (EDB)	ND	1.0	"
Dibromomethane	ND	1.0	"
1,2-Dichlorobenzene	ND	1.0	"
1,3-Dichlorobenzene	ND	1.0	"
1,4-Dichlorobenzene	ND	1.0	"
Dichlorodifluoromethane	ND	0.50	"
1,1-Dichloroethane	ND	1.0	"
1,2-Dichloroethane	ND	0.50	"
1,1-Dichloroethene	ND	1.0	"
cis-1,2-Dichloroethene	ND	1.0	"
trans-1,2-Dichloroethene	ND	1.0	"
1,2-Dichloropropane	ND	1.0	"
1,3-Dichloropropane	ND	1.0	"
2,2-Dichloropropane	ND	1.0	"
1,1-Dichloropropene	ND	1.0	"
cis-1,3-Dichloropropene	ND	0.50	"
trans-1,3-Dichloropropene	ND	0.50	"
Hexachlorobutadiene	ND	1.0	"
Isopropylbenzene	ND	1.0	"

SunStar Laboratories, Inc.

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Daniel Chavez For Wendy Hsiao, Project Manager



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Murex	Project: Cenco	Reported: 11/06/12 17:26
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	
Irvine CA, 92861	Project Manager: Jeremy Squire	

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2110208 - EPA 5030 GCMS

Blank (2110208-BLK1)

Prepared & Analyzed: 11/02/12

p-Isopropyltoluene	ND	1.0	ug/l							
Methylene chloride	ND	1.0	"							
Naphthalene	ND	1.0	"							
n-Propylbenzene	ND	1.0	"							
Styrene	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	1.0	"							
1,1,1,2-Tetrachloroethane	ND	1.0	"							
Tetrachloroethene	ND	1.0	"							
1,2,3-Trichlorobenzene	ND	1.0	"							
1,2,4-Trichlorobenzene	ND	1.0	"							
1,1,2-Trichloroethane	ND	1.0	"							
1,1,1-Trichloroethane	ND	1.0	"							
Trichloroethene	ND	1.0	"							
Trichlorofluoromethane	ND	1.0	"							
1,2,3-Trichloropropane	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
Vinyl chloride	ND	1.0	"							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
m,p-Xylene	ND	1.0	"							
o-Xylene	ND	0.50	"							
Tert-amyl methyl ether	ND	2.0	"							
Tert-butyl alcohol	ND	10	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
Methyl tert-butyl ether	ND	1.0	"							
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"							
Surrogate 4-Bromofluorobenzene	8.42		"	8.00		105	83.5-119			
Surrogate Dibromofluoromethane	9.87		"	8.00		123	81-136			
Surrogate Toluene-d8	7.76		"	8.00		97.0	88.8-117			

SunStar Laboratories, Inc.

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Daniel Chavez For Wendy Hsiao, Project Manager



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Murex	Project: Cenco	Reported:
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	11/06/12 17:26
Irvine CA, 92861	Project Manager: Jeremy Squire	

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2110208 - EPA 5030 GCMS

LCS (2110208-BS1)

Prepared: 11/02/12 Analyzed: 11/06/12

Chlorobenzene	22.9	1.0	ug/l	20.0		115	75-125			
1,1-Dichloroethene	21.6	1.0	"	20.0		108	75-125			
Trichloroethene	22.9	1.0	"	20.0		114	75-125			
Benzene	23.4	0.50	"	20.0		117	75-125			
Toluene	24.0	0.50	"	20.0		120	75-125			
Surrogate 4-Bromofluorobenzene	8.14		"	8.00		102	83.5-119			
Surrogate Dibromofluoromethane	8.85		"	8.00		111	81-136			
Surrogate Toluene-d8	7.05		"	8.00		88.1	88.8-117			S-GC

LCS Dup (2110208-BSD1)

Prepared: 11/02/12 Analyzed: 11/06/12

Chlorobenzene	22.2	1.0	ug/l	20.0		111	75-125	3.05	20	
1,1-Dichloroethene	23.4	1.0	"	20.0		117	75-125	8.10	20	
Trichloroethene	21.1	1.0	"	20.0		106	75-125	7.91	20	
Benzene	22.2	0.50	"	20.0		111	75-125	5.22	20	
Toluene	22.6	0.50	"	20.0		113	75-125	5.89	20	
Surrogate 4-Bromofluorobenzene	8.35		"	8.00		104	83.5-119			
Surrogate Dibromofluoromethane	9.29		"	8.00		116	81-136			
Surrogate Toluene-d8	7.30		"	8.00		91.2	88.8-117			

SunStar Laboratories, Inc.

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Daniel Chavez For Wendy Hsiao, Project Manager



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Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 11/06/12 17:26
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Notes and Definitions

S-GC Surrogate recovery outside of established control limits. The data was accepted based on valid recovery of the remaining surrogate(s).

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

SunStar Laboratories, Inc.

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Daniel Chavez For Wendy Hsiao, Project Manager

Chain of Custody Record

Date: 11.1.2012

Page: 1 OF 1

Project Name: CENCO

Collector: Frane Sosic

Client Project #: 1003-001-300

Batch #: T121994

EDF #: _____

Sample disposal instructions: Disposal @ \$2.00 each _____ Return to client _____ Pickup _____

SAMPLE RECEIVING REVIEW SHEET

BATCH # T121994

Client Name: MUREX

Project: CENCO

Received by: DAN

Date/Time Received: 11.1.12 16:00

Delivered by: ☐ Client ☒ SunStar Courier ☐ GSO ☐ FedEx ☐ Other _____

Total number of coolers received 0 Temp criteria = 6°C > 0°C (no frozen containers)

Temperature: cooler #1 4.2 °C +/- the CF (- 0.2°C) = 4.0 °C corrected temperature

cooler #2 _____ °C +/- the CF (- 0.2°C) = _____ °C corrected temperature

cooler #3 _____ °C +/- the CF (- 0.2°C) = _____ °C corrected temperature

Samples outside temp. but received on ice, w/in 6 hours of final sampling. ☒ Yes ☐ No* ☐ N/A

Custody Seals Intact on Cooler/Sample ☐ Yes ☐ No* ☒ N/A

Sample Containers Intact ☒ Yes ☐ No*

Sample labels match COC ID's ☒ Yes ☐ No*

Total number of containers received match COC ☒ Yes ☐ No*

Proper containers received for analyses requested on COC ☒ Yes ☐ No*

Proper preservative indicated on COC/containers for analyses requested ☒ Yes ☐ No* ☐ N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times. ☒ Yes ☐ No*

* Complete Non-Conformance Receiving Sheet if checked

Cooler/Sample Review - Initials and date BC 11.2.12

Comments:



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08 November 2012

Jeremy Squire
Murex
15375 Barranca Parkway, Suite K-101
Irvine, CA 92861
RE: Cenco

Enclosed are the results of analyses for samples received by the laboratory on 11/05/12 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Wendy Hsiao
Project Manager



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 11/08/12 14:54
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LL_W4_110512_01	T122015-01	Water	11/05/12 09:45	11/05/12 16:30
LL_W1_110512_01	T122015-02	Water	11/05/12 13:00	11/05/12 16:30
LL_503B_110512_01	T122015-03	Water	11/05/12 15:30	11/05/12 16:30
LL_TB_110512	T122015-04	Water	11/05/12 00:00	11/05/12 16:30

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Wendy Hsiao, Project Manager



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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/08/12 14:54

LL_W4_110512_01

T122015-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	ND	50	ug/l	1	2110614	11/06/12	11/06/12	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		88.5 %	65-135		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2110616	11/06/12	11/06/12	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	1.0	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Wendy Hsiao

Wendy Hsiao, Project Manager

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/08/12 14:54

LL_W4_110512_01
T122015-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,2-Dichloropropane	ND	1.0	ug/l	1	2110616	11/06/12	11/06/12	EPA 8260B
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	ND	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	6.3	1.0	"	"	"	"	"	"
n-Propylbenzene	ND	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	2.5	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
Benzene	ND	0.50	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/08/12 14:54

LL_W4_110512_01
T122015-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Tert-butyl alcohol	ND	10	ug/l	1	2110616	11/06/12	11/06/12	EPA 8260B	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.2 %	83.5-119		"	"	"	"	
Surrogate: Dibromofluoromethane		85.6 %	81-136		"	"	"	"	
Surrogate: Toluene-d8		118 %	88.8-117		"	"	"	"	S-GC

SunStar Laboratories, Inc.



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Wendy Hsiao, Project Manager



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Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 11/08/12 14:54
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LL_W1_110512_01
T122015-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	67	50	ug/l	1	2110614	11/06/12	11/06/12	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		82.5 %	65-135		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2110616	11/06/12	11/06/12	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager



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Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/08/12 14:54

LL_W1_110512_01
T122015-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,2-Dichloropropane	ND	1.0	ug/l	1	2110616	11/06/12	11/06/12	EPA 8260B	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	4.4	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	1.2	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	

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Wendy Hsiao

Wendy Hsiao, Project Manager

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/08/12 14:54

LL_W1_110512_01
T122015-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Tert-butyl alcohol	ND	10	ug/l	1	2110616	11/06/12	11/06/12	EPA 8260B	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.2 %	83.5-119		"	"	"	"	
Surrogate: Dibromofluoromethane		83.9 %	81-136		"	"	"	"	
Surrogate: Toluene-d8		119 %	88.8-117		"	"	"	"	S-GC

SunStar Laboratories, Inc.



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Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/08/12 14:54

LL_503B_110512_01
T122015-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	680	50	ug/l	1	2110614	11/06/12	11/06/12	EPA 8015C
Surrogate: 4-Bromofluorobenzene		89.4 %	65-135		"	"	"	"

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2110616	11/06/12	11/06/12	EPA 8260B
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	2.9	1.0	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"

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Wendy Hsiao

Wendy Hsiao, Project Manager

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/08/12 14:54

LL_503B_110512_01
T122015-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,3-Dichloropropane	ND	1.0	ug/l	1	2110616	11/06/12	11/06/12	EPA 8260B
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	ND	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	23	1.0	"	"	"	"	"	"
n-Propylbenzene	2.7	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	5.5	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	24	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
Benzene	120	0.50	"	"	"	"	"	"
Toluene	2.1	0.50	"	"	"	"	"	"
Ethylbenzene	5.4	0.50	"	"	"	"	"	"
m,p-Xylene	19	1.0	"	"	"	"	"	"
o-Xylene	4.4	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"
Tert-butyl alcohol	12	10	"	"	"	"	"	"
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/08/12 14:54

LL_503B_110512_01
T122015-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Ethyl tert-butyl ether	ND	2.0	ug/l	1	2110616	11/06/12	11/06/12	EPA 8260B	
Methyl tert-butyl ether	1.3	1.0	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.9 %	83.5-119		"	"	"	"	
Surrogate: Dibromofluoromethane		85.8 %	81-136		"	"	"	"	
Surrogate: Toluene-d8		120 %	88.8-117		"	"	"	"	S-GC

SunStar Laboratories, Inc.

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Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/08/12 14:54

LL_TB_110512
T122015-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2110616	11/06/12	11/06/12	EPA 8260B
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"

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Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/08/12 14:54

LL_TB_110512
T122015-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

cis-1,3-Dichloropropene	ND	0.50	ug/l	1	2110616	11/06/12	11/06/12	EPA 8260B
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	ND	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"
n-Propylbenzene	ND	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
Benzene	ND	0.50	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"
Tert-butyl alcohol	ND	10	"	"	"	"	"	"
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Wendy Hsiao, Project Manager



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/08/12 14:54

LL_TB_110512
T122015-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	ug/l	1	2110616	11/06/12	11/06/12	EPA 8260B	
Surrogate: 4-Bromofluorobenzene	96.1 %	83.5-119			"	"	"	"	
Surrogate: Dibromofluoromethane	86.2 %	81-136			"	"	"	"	
Surrogate: Toluene-d8	117 %	88.8-117			"	"	"	"	

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager



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Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 11/08/12 14:54
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Purgeable Petroleum Hydrocarbons by EPA 8015C - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2110614 - EPA 5030 GC										
Blank (2110614-BLK1)				Prepared & Analyzed: 11/06/12						
C6-C12 (GRO)	ND	50	ug/l							
Surrogate 4-Bromofluorobenzene	47.5		"	50.0		95.1	65-135			
LCS (2110614-BS1)				Prepared & Analyzed: 11/06/12						
C6-C12 (GRO)	5640	50	ug/l	5500		103	75-125			
Surrogate 4-Bromofluorobenzene	53.6		"	50.0		107	65-135			
Matrix Spike (2110614-MS1)				Source: T122015-01		Prepared & Analyzed: 11/06/12				
C6-C12 (GRO)	5740	50	ug/l	5500	ND	104	65-135			
Surrogate 4-Bromofluorobenzene	54.2		"	50.0		108	65-135			
Matrix Spike Dup (2110614-MSD1)				Source: T122015-01		Prepared & Analyzed: 11/06/12				
C6-C12 (GRO)	5640	50	ug/l	5500	ND	103	65-135	1.72	20	
Surrogate 4-Bromofluorobenzene	50.0		"	50.0		100	65-135			

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager



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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/08/12 14:54

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2110616 - EPA 5030 GCMS

Blank (2110616-BLK1)

Prepared & Analyzed: 11/06/12

Bromobenzene	ND	1.0	ug/l
Bromochloromethane	ND	1.0	"
Bromodichloromethane	ND	1.0	"
Bromoform	ND	1.0	"
Bromomethane	ND	1.0	"
n-Butylbenzene	ND	1.0	"
sec-Butylbenzene	ND	1.0	"
tert-Butylbenzene	ND	1.0	"
Carbon tetrachloride	ND	0.50	"
Chlorobenzene	ND	1.0	"
Chloroethane	ND	1.0	"
Chloroform	ND	1.0	"
Chloromethane	ND	1.0	"
2-Chlorotoluene	ND	1.0	"
4-Chlorotoluene	ND	1.0	"
Dibromochloromethane	ND	1.0	"
1,2-Dibromo-3-chloropropane	ND	1.0	"
1,2-Dibromoethane (EDB)	ND	1.0	"
Dibromomethane	ND	1.0	"
1,2-Dichlorobenzene	ND	1.0	"
1,3-Dichlorobenzene	ND	1.0	"
1,4-Dichlorobenzene	ND	1.0	"
Dichlorodifluoromethane	ND	0.50	"
1,1-Dichloroethane	ND	1.0	"
1,2-Dichloroethane	ND	0.50	"
1,1-Dichloroethene	ND	1.0	"
cis-1,2-Dichloroethene	ND	1.0	"
trans-1,2-Dichloroethene	ND	1.0	"
1,2-Dichloropropane	ND	1.0	"
1,3-Dichloropropane	ND	1.0	"
2,2-Dichloropropane	ND	1.0	"
1,1-Dichloropropene	ND	1.0	"
cis-1,3-Dichloropropene	ND	0.50	"
trans-1,3-Dichloropropene	ND	0.50	"
Hexachlorobutadiene	ND	1.0	"
Isopropylbenzene	ND	1.0	"

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager



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Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	Reported:
Irvine CA, 92861	Project Manager: Jeremy Squire	11/08/12 14:54

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2110616 - EPA 5030 GCMS

Blank (2110616-BLK1)

Prepared & Analyzed: 11/06/12

p-Isopropyltoluene	ND	1.0	ug/l							
Methylene chloride	ND	1.0	"							
Naphthalene	ND	1.0	"							
n-Propylbenzene	ND	1.0	"							
Styrene	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	1.0	"							
1,1,1,2-Tetrachloroethane	ND	1.0	"							
Tetrachloroethene	ND	1.0	"							
1,2,3-Trichlorobenzene	ND	1.0	"							
1,2,4-Trichlorobenzene	ND	1.0	"							
1,1,2-Trichloroethane	ND	1.0	"							
1,1,1-Trichloroethane	ND	1.0	"							
Trichloroethene	ND	1.0	"							
Trichlorofluoromethane	ND	1.0	"							
1,2,3-Trichloropropane	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
Vinyl chloride	ND	1.0	"							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
m,p-Xylene	ND	1.0	"							
o-Xylene	ND	0.50	"							
Tert-amyl methyl ether	ND	2.0	"							
Tert-butyl alcohol	ND	10	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
Methyl tert-butyl ether	ND	1.0	"							
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"							
Surrogate 4-Bromofluorobenzene	7.67		"	8.00		95.9	83.5-119			
Surrogate Dibromofluoromethane	6.82		"	8.00		85.2	81-136			
Surrogate Toluene-d8	9.58		"	8.00		120	88.8-117			S-GC

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager



25712 Commercentre Drive
Lake Forest, California 92630
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Murex	Project: Cenco	Reported:
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	11/08/12 14:54
Irvine CA, 92861	Project Manager: Jeremy Squire	

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2110616 - EPA 5030 GCMS

LCS (2110616-BS1)

Prepared & Analyzed: 11/06/12

Chlorobenzene	22.1	1.0	ug/l	20.0		111	75-125			
1,1-Dichloroethene	22.7	1.0	"	20.0		114	75-125			
Trichloroethene	20.9	1.0	"	20.0		104	75-125			
Benzene	23.0	0.50	"	20.0		115	75-125			
Toluene	22.1	0.50	"	20.0		110	75-125			
Surrogate 4-Bromofluorobenzene	8.26		"	8.00		103	83.5-119			
Surrogate Dibromofluoromethane	7.02		"	8.00		87.8	81-136			
Surrogate Toluene-d8	8.43		"	8.00		105	88.8-117			

Matrix Spike (2110616-MS1)

Source: T122015-01

Prepared & Analyzed: 11/06/12

Chlorobenzene	22.1	1.0	ug/l	20.0	ND	110	75-125			
1,1-Dichloroethene	21.8	1.0	"	20.0	ND	109	75-125			
Trichloroethene	22.1	1.0	"	20.0	ND	110	75-125			
Benzene	23.9	0.50	"	20.0	ND	120	75-125			
Toluene	22.8	0.50	"	20.0	ND	114	75-125			
Surrogate 4-Bromofluorobenzene	7.19		"	8.00		89.9	83.5-119			
Surrogate Dibromofluoromethane	7.20		"	8.00		90.0	81-136			
Surrogate Toluene-d8	7.90		"	8.00		98.8	88.8-117			

Matrix Spike Dup (2110616-MSD1)

Source: T122015-01

Prepared & Analyzed: 11/06/12

Chlorobenzene	23.7	1.0	ug/l	20.0	ND	118	75-125	6.82	20	
1,1-Dichloroethene	21.6	1.0	"	20.0	ND	108	75-125	1.24	20	
Trichloroethene	22.7	1.0	"	20.0	ND	114	75-125	2.81	20	
Benzene	23.8	0.50	"	20.0	ND	119	75-125	0.461	20	
Toluene	23.1	0.50	"	20.0	ND	116	75-125	1.13	20	
Surrogate 4-Bromofluorobenzene	8.27		"	8.00		103	83.5-119			
Surrogate Dibromofluoromethane	7.28		"	8.00		91.0	81-136			
Surrogate Toluene-d8	7.67		"	8.00		95.9	88.8-117			

SunStar Laboratories, Inc.

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Wendy Hsiao

Wendy Hsiao, Project Manager



25712 Commercentre Drive
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Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 11/08/12 14:54
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Notes and Definitions

S-GC Surrogate recovery outside of established control limits. The data was accepted based on valid recovery of the remaining surrogate(s).

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager

SunStar Laboratories, Inc.
25712 Commercentre Dr
Lake Forest, CA 92630
949-297-5020

Chain of Custody Record

Client: MUREX ENVIRONMENTAL INC.
Address: 2640 Walnut Ave, Unit F
Phone: (714) 508-0800 Fax: (714) 508-0880
Project Manager: Jeremy Squire (714) 604-5836

Date: 11-5-2012

Page: 1 OF 1

Project Name: CENCO

Collector: Frane Sosic

Client Project #: 1003-001-300

Batch #: T122015

EDF #: _____

Sample ID	Date Sampled	Time	Sample Type	TPHg (8015 M)	VOCs (8260 B)											Total # of containers	Comments/Preservative	Laboratory ID #							
LL-W4-110512-01	11-5-12	945	GW	X	X											6		01							
LL-W1-110512-01	11-5-12	1300	GW	X	X											6		02							
LL-503B-110512-01	11-5-12	1530	GW	X	X											6		03							
LL-TB-110512					X											2		04							
Relinquished by: (signature) 	Date / Time F. Sasic 11-5-2012 1630	Received by: (Sign / Date / Time) 11-5-12 1630			Total # of containers		20		Notes																
Relinquished by: (signature) 	Date / Time	Received by: (Sign / Date / Time)			Chain of Custody seals		N																		
Relinquished by: (signature) 	Date / Time	Received by: (Sign / Date / Time)			Seals intact? Y/N/NA		N/A																		
					Received good condition/cold		Y																		
Relinquished by: (signature)	Date / Time	Received by: (Sign / Date / Time)			Turn around time:		Standard																		

Sample disposal Instructions: Disposal @ \$2.00 each _____ Return to client _____ Pickup _____

SAMPLE RECEIVING REVIEW SHEET

BATCH # T122015

Client Name: Murex

Project: Cenco

Received by: Jan M

Date/Time Received: 11/5/12 1630

Delivered by: ☐ Client ☒ SunStar Courier ☐ GSO ☐ FedEx ☐ Other _____

Total number of coolers received 1

Temp criteria = 6°C > 0°C (no frozen containers)

Temperature: cooler #1 1.6 °C +/- the CF (-0.2°C) = 1.4 °C corrected temperature

cooler #2 _____ °C +/- the CF (-0.2°C) = _____ °C corrected temperature

cooler #3 _____ °C +/- the CF (-0.2°C) = _____ °C corrected temperature

Samples outside temp. but received on ice, w/in 6 hours of final sampling. ☒ Yes ☐ No* ☐ N/A

Custody Seals Intact on Cooler/Sample ☐ Yes ☐ No* ☒ N/A

Sample Containers Intact ☒ Yes ☐ No*

Sample labels match COC ID's ☒ Yes ☐ No*

Total number of containers received match COC ☒ Yes ☐ No*

Proper containers received for analyses requested on COC ☒ Yes ☐ No*

Proper preservative indicated on COC/containers for analyses requested ☒ Yes ☐ No* ☐ N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times. ☒ Yes ☐ No*

* Complete Non-Conformance Receiving Sheet if checked

Cooler/Sample Review - Initials and date [Signature] 11/5/12

Comments:



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

09 November 2012

Jeremy Squire
Murex
15375 Barranca Parkway, Suite K-101
Irvine, CA 92861
RE: Cenco

Enclosed are the results of analyses for samples received by the laboratory on 11/06/12 15:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Wendy Hsiao
Project Manager



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 11/09/12 16:51
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LL_104A_110612_01	T122027-01	Water	11/06/12 10:00	11/06/12 15:45
LL_106A_110612_01	T122027-02	Water	11/06/12 12:50	11/06/12 15:45
LL_107A_110612_01	T122027-03	Water	11/06/12 15:32	11/06/12 15:45
LL_TB_110612_01	T122027-04	Water	11/06/12 00:00	11/06/12 15:45

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager



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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/09/12 16:51

LL_104A_110612_01
T122027-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	ND	50	ug/l	1	2110716	11/07/12	11/09/12	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		95.0 %	65-135		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2110717	11/07/12	11/07/12	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	1.7	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Wendy Hsiao

Wendy Hsiao, Project Manager

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/09/12 16:51

LL_104A_110612_01
T122027-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,2-Dichloropropane	ND	1.0	ug/l	1	2110717	11/07/12	11/07/12	EPA 8260B
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	ND	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"
n-Propylbenzene	ND	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
Benzene	ND	0.50	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager



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Murex
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Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/09/12 16:51

LL_104A_110612_01
T122027-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Tert-butyl alcohol	ND	10	ug/l	1	2110717	11/07/12	11/07/12	EPA 8260B
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene	97.4 %	83.5-119	"	"	"	"	"	"
Surrogate: Dibromofluoromethane	90.6 %	81-136	"	"	"	"	"	"
Surrogate: Toluene-d8	117 %	88.8-117	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/09/12 16:51

LL_106A_110612_01
T122027-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	610	50	ug/l	1	2110716	11/07/12	11/09/12	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		112 %	65-135		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2110717	11/07/12	11/07/12	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	1.0	1.0	"	"	"	"	"	"	
sec-Butylbenzene	13	1.0	"	"	"	"	"	"	
tert-Butylbenzene	2.8	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Wendy Hsiao

Wendy Hsiao, Project Manager



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Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/09/12 16:51

LL_106A_110612_01
T122027-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,3-Dichloropropane	ND	1.0	ug/l	1	2110717	11/07/12	11/07/12	EPA 8260B
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	94	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	1.5	1.0	"	"	"	"	"	"
n-Propylbenzene	74	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	1.0	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
Vinyl chloride	78	1.0	"	"	"	"	"	"
Benzene	6.9	0.50	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"
Ethylbenzene	0.83	0.50	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"
Tert-butyl alcohol	ND	10	"	"	"	"	"	"

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Murex
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Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/09/12 16:51

LL_106A_110612_01
T122027-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Di-isopropyl ether	ND	2.0	ug/l	1	2110717	11/07/12	11/07/12	EPA 8260B	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		114 %	83.5-119		"	"	"	"	
Surrogate: Dibromofluoromethane		89.8 %	81-136		"	"	"	"	
Surrogate: Toluene-d8		119 %	88.8-117		"	"	"	"	S-GC

SunStar Laboratories, Inc.

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Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 11/09/12 16:51
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LL_107A_110612_01
T122027-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	ND	50	ug/l	1	2110716	11/07/12	11/09/12	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		87.9 %	65-135		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2110717	11/07/12	11/07/12	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Wendy Hsiao

Wendy Hsiao, Project Manager

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/09/12 16:51

LL_107A_110612_01
T122027-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,2-Dichloropropane	ND	1.0	ug/l	1	2110717	11/07/12	11/07/12	EPA 8260B
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	ND	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"
n-Propylbenzene	ND	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
Benzene	ND	0.50	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"

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Wendy Hsiao, Project Manager

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/09/12 16:51

LL_107A_110612_01
T122027-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Tert-butyl alcohol	ND	10	ug/l	1	2110717	11/07/12	11/07/12	EPA 8260B
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene	96.5 %	83.5-119	"	"	"	"	"	"
Surrogate: Dibromofluoromethane	91.4 %	81-136	"	"	"	"	"	"
Surrogate: Toluene-d8	116 %	88.8-117	"	"	"	"	"	"

SunStar Laboratories, Inc.



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Wendy Hsiao, Project Manager

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/09/12 16:51

LL_TB_110612_01
T122027-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2110717	11/07/12	11/07/12	EPA 8260B
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"

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Wendy Hsiao, Project Manager

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/09/12 16:51

LL_TB_110612_01
T122027-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

cis-1,3-Dichloropropene	ND	0.50	ug/l	1	2110717	11/07/12	11/07/12	EPA 8260B
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	ND	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"
n-Propylbenzene	ND	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
Benzene	ND	0.50	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"
Tert-butyl alcohol	ND	10	"	"	"	"	"	"
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/09/12 16:51

LL_TB_110612_01
T122027-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	ug/l	1	2110717	11/07/12	11/07/12	EPA 8260B	
Surrogate: 4-Bromofluorobenzene	96.2 %	83.5-119			"	"	"	"	
Surrogate: Dibromofluoromethane	88.8 %	81-136			"	"	"	"	
Surrogate: Toluene-d8	115 %	88.8-117			"	"	"	"	

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager



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Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/09/12 16:51

Purgeable Petroleum Hydrocarbons by EPA 8015C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2110716 - EPA 5030 GC

Blank (2110716-BLK1)

Prepared: 11/07/12 Analyzed: 11/09/12

C6-C12 (GRO)	ND	50	ug/l							
Surrogate 4-Bromofluorobenzene	85.6		"	100		85.6	65-135			

LCS (2110716-BS1)

Prepared: 11/07/12 Analyzed: 11/09/12

C6-C12 (GRO)	4810	50	ug/l	5500		87.4	75-125			
Surrogate 4-Bromofluorobenzene	87.4		"	100		87.4	65-135			

Matrix Spike (2110716-MS1)

Source: T122027-01

Prepared: 11/07/12 Analyzed: 11/09/12

C6-C12 (GRO)	3700	50	ug/l	5500	ND	67.3	65-135			
Surrogate 4-Bromofluorobenzene	93.6		"	100		93.6	65-135			

Matrix Spike Dup (2110716-MSD1)

Source: T122027-01

Prepared: 11/07/12 Analyzed: 11/09/12

C6-C12 (GRO)	3830	50	ug/l	5500	ND	69.7	65-135	3.45	20	
Surrogate 4-Bromofluorobenzene	80.0		"	100		80.0	65-135			

SunStar Laboratories, Inc.

Wendy Hsiao, Project Manager

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15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/09/12 16:51

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2110717 - EPA 5030 GCMS

Blank (2110717-BLK1)

Prepared & Analyzed: 11/07/12

Bromobenzene	ND	1.0	ug/l
Bromochloromethane	ND	1.0	"
Bromodichloromethane	ND	1.0	"
Bromoform	ND	1.0	"
Bromomethane	ND	1.0	"
n-Butylbenzene	ND	1.0	"
sec-Butylbenzene	ND	1.0	"
tert-Butylbenzene	ND	1.0	"
Carbon tetrachloride	ND	0.50	"
Chlorobenzene	ND	1.0	"
Chloroethane	ND	1.0	"
Chloroform	ND	1.0	"
Chloromethane	ND	1.0	"
2-Chlorotoluene	ND	1.0	"
4-Chlorotoluene	ND	1.0	"
Dibromochloromethane	ND	1.0	"
1,2-Dibromo-3-chloropropane	ND	1.0	"
1,2-Dibromoethane (EDB)	ND	1.0	"
Dibromomethane	ND	1.0	"
1,2-Dichlorobenzene	ND	1.0	"
1,3-Dichlorobenzene	ND	1.0	"
1,4-Dichlorobenzene	ND	1.0	"
Dichlorodifluoromethane	ND	0.50	"
1,1-Dichloroethane	ND	1.0	"
1,2-Dichloroethane	ND	0.50	"
1,1-Dichloroethene	ND	1.0	"
cis-1,2-Dichloroethene	ND	1.0	"
trans-1,2-Dichloroethene	ND	1.0	"
1,2-Dichloropropane	ND	1.0	"
1,3-Dichloropropane	ND	1.0	"
2,2-Dichloropropane	ND	1.0	"
1,1-Dichloropropene	ND	1.0	"
cis-1,3-Dichloropropene	ND	0.50	"
trans-1,3-Dichloropropene	ND	0.50	"
Hexachlorobutadiene	ND	1.0	"
Isopropylbenzene	ND	1.0	"

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager



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Murex	Project: Cenco	Reported:
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	11/09/12 16:51
Irvine CA, 92861	Project Manager: Jeremy Squire	

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2110717 - EPA 5030 GCMS

Blank (2110717-BLK1)

Prepared & Analyzed: 11/07/12

p-Isopropyltoluene	ND	1.0	ug/l							
Methylene chloride	ND	1.0	"							
Naphthalene	ND	1.0	"							
n-Propylbenzene	ND	1.0	"							
Styrene	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	1.0	"							
1,1,1,2-Tetrachloroethane	ND	1.0	"							
Tetrachloroethene	ND	1.0	"							
1,2,3-Trichlorobenzene	ND	1.0	"							
1,2,4-Trichlorobenzene	ND	1.0	"							
1,1,2-Trichloroethane	ND	1.0	"							
1,1,1-Trichloroethane	ND	1.0	"							
Trichloroethene	ND	1.0	"							
Trichlorofluoromethane	ND	1.0	"							
1,2,3-Trichloropropane	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
Vinyl chloride	ND	1.0	"							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
m,p-Xylene	ND	1.0	"							
o-Xylene	ND	0.50	"							
Tert-amyl methyl ether	ND	2.0	"							
Tert-butyl alcohol	ND	10	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
Methyl tert-butyl ether	ND	1.0	"							
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"							
Surrogate 4-Bromofluorobenzene	7.73		"	8.00		96.6	83.5-119			
Surrogate Dibromofluoromethane	7.19		"	8.00		89.9	81-136			
Surrogate Toluene-d8	9.40		"	8.00		118	88.8-117			S-GC

SunStar Laboratories, Inc.

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Wendy Hsiao

Wendy Hsiao, Project Manager



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Murex	Project: Cenco	Reported:
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	11/09/12 16:51
Irvine CA, 92861	Project Manager: Jeremy Squire	

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2110717 - EPA 5030 GCMS

LCS (2110717-BS1)

Prepared & Analyzed: 11/07/12

Chlorobenzene	21.6	1.0	ug/l	20.0		108	75-125			
1,1-Dichloroethene	18.8	1.0	"	20.0		94.0	75-125			
Trichloroethene	21.2	1.0	"	20.0		106	75-125			
Benzene	23.5	0.50	"	20.0		118	75-125			
Toluene	22.6	0.50	"	20.0		113	75-125			
Surrogate 4-Bromofluorobenzene	6.97		"	8.00		87.1	83.5-119			
Surrogate Dibromofluoromethane	8.45		"	8.00		106	81-136			
Surrogate Toluene-d8	7.34		"	8.00		91.8	88.8-117			

Matrix Spike (2110717-MS1)

Source: T122027-01

Prepared & Analyzed: 11/07/12

Chlorobenzene	21.4	1.0	ug/l	20.0	ND	107	75-125			
1,1-Dichloroethene	18.6	1.0	"	20.0	ND	93.0	75-125			
Trichloroethene	21.1	1.0	"	20.0	ND	106	75-125			
Benzene	23.0	0.50	"	20.0	ND	115	75-125			
Toluene	22.6	0.50	"	20.0	ND	113	75-125			
Surrogate 4-Bromofluorobenzene	7.34		"	8.00		91.8	83.5-119			
Surrogate Dibromofluoromethane	7.74		"	8.00		96.8	81-136			
Surrogate Toluene-d8	7.67		"	8.00		95.9	88.8-117			

Matrix Spike Dup (2110717-MSD1)

Source: T122027-01

Prepared & Analyzed: 11/07/12

Chlorobenzene	21.7	1.0	ug/l	20.0	ND	109	75-125	1.39	20	
1,1-Dichloroethene	19.4	1.0	"	20.0	ND	97.2	75-125	4.42	20	
Trichloroethene	21.7	1.0	"	20.0	ND	108	75-125	2.62	20	
Benzene	23.2	0.50	"	20.0	ND	116	75-125	0.909	20	
Toluene	22.7	0.50	"	20.0	ND	114	75-125	0.265	20	
Surrogate 4-Bromofluorobenzene	7.16		"	8.00		89.5	83.5-119			
Surrogate Dibromofluoromethane	7.98		"	8.00		99.8	81-136			
Surrogate Toluene-d8	7.52		"	8.00		94.0	88.8-117			

SunStar Laboratories, Inc.

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Wendy Hsiao

Wendy Hsiao, Project Manager



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Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 11/09/12 16:51
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Notes and Definitions

S-GC Surrogate recovery outside of established control limits. The data was accepted based on valid recovery of the remaining surrogate(s).

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager

Chain of Custody Record

Page: 1 OF 1

Client Project #: 1003-001-300

EDF #:

Sample disposal Instructions: Disposal @ \$2.00 each _____ Return to client _____ Pickup _____

SAMPLE RECEIVING REVIEW SHEET

BATCH # T122027

Client Name: MUREX ENV.

Project: CENCO

Received by: DAN

Date/Time Received: 11.6.12 / 15145

Delivered by: ☐ Client ☒ SunStar Courier ☐ GSO ☐ FedEx ☐ Other _____

Total number of coolers received 0 Temp criteria = 6°C > 0°C (no frozen containers)

Temperature: cooler #1 2.4 °C +/- the CF (- 0.2°C) = 2.2 °C corrected temperature

cooler #2 _____ °C +/- the CF (- 0.2°C) = _____ °C corrected temperature

cooler #3 _____ °C +/- the CF (- 0.2°C) = _____ °C corrected temperature

Samples outside temp. but received on ice, w/in 6 hours of final sampling. ☒ Yes ☐ No* ☐ N/A

Custody Seals Intact on Cooler/Sample ☐ Yes ☐ No* ☒ N/A

Sample Containers Intact ☒ Yes ☐ No*

Sample labels match COC ID's ☒ Yes ☐ No*

Total number of containers received match COC ☒ Yes ☐ No*

Proper containers received for analyses requested on COC ☒ Yes ☐ No*

Proper preservative indicated on COC/containers for analyses requested ☒ Yes ☐ No* ☐ N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times. ☒ Yes ☐ No*

* Complete Non-Conformance Receiving Sheet if checked

Cooler/Sample Review - Initials and date SL 11.7.12

Comments:



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13 November 2012

Jeremy Squire
Murex
15375 Barranca Parkway, Suite K-101
Irvine, CA 92861
RE: Cenco

Enclosed are the results of analyses for samples received by the laboratory on 11/07/12 16:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Wendy Hsiao
Project Manager



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/13/12 16:07

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LL_W7_110712_01	T122033-01	Water	11/07/12 08:45	11/07/12 16:40
LL_W8_110712_01	T122033-02	Water	11/07/12 10:37	11/07/12 16:40
LL_W9_110712_01	T122033-03	Water	11/07/12 12:26	11/07/12 16:40
LL_W10_110712_01	T122033-04	Water	11/07/12 15:44	11/07/12 16:40
LL_TB_110712	T122033-05	Water	11/07/12 00:00	11/07/12 16:40

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager



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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/13/12 16:07

LL_W7_110712_01
T122033-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	ND	50	ug/l	1	2110808	11/12/12	11/13/12	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		95.2 %	65-135		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2110809	11/08/12	11/08/12	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Wendy Hsiao

Wendy Hsiao, Project Manager

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/13/12 16:07

LL_W7_110712_01
T122033-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,2-Dichloropropane	ND	1.0	ug/l	1	2110809	11/08/12	11/08/12	EPA 8260B
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	ND	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"
n-Propylbenzene	ND	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
Benzene	0.53	0.50	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"
Ethylbenzene	0.64	0.50	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"
o-Xylene	0.57	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager



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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/13/12 16:07

LL_W7_110712_01
T122033-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Tert-butyl alcohol	ND	10	ug/l	1	2110809	11/08/12	11/08/12	EPA 8260B	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.8 %	83.5-119		"	"	"	"	
Surrogate: Dibromofluoromethane		80.8 %	81-136		"	"	"	"	S-GC
Surrogate: Toluene-d8		116 %	88.8-117		"	"	"	"	

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager



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Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 11/13/12 16:07
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LL_W8_110712_01
T122033-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	62	50	ug/l	1	2110808	11/12/12	11/13/12	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		100 %	65-135		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2110809	11/08/12	11/08/12	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Wendy Hsiao

Wendy Hsiao, Project Manager

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/13/12 16:07

LL_W8_110712_01
T122033-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,2-Dichloropropane	ND	1.0	ug/l	1	2110809	11/08/12	11/08/12	EPA 8260B
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	ND	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"
n-Propylbenzene	ND	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
Benzene	0.50	0.50	"	"	"	"	"	"
Toluene	0.75	0.50	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/13/12 16:07

LL_W8_110712_01
T122033-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Tert-butyl alcohol	ND	10	ug/l	1	2110809	11/08/12	11/08/12	EPA 8260B	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.1 %	83.5-119		"	"	"	"	
Surrogate: Dibromofluoromethane		82.8 %	81-136		"	"	"	"	
Surrogate: Toluene-d8		120 %	88.8-117		"	"	"	"	S-GC

SunStar Laboratories, Inc.

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Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 11/13/12 16:07
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LL_W9_110712_01
T122033-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	ND	50	ug/l	1	2110808	11/12/12	11/13/12	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		86.2 %	65-135		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2110809	11/08/12	11/08/12	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Wendy Hsiao

Wendy Hsiao, Project Manager

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/13/12 16:07

LL_W9_110712_01
T122033-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,2-Dichloropropane	ND	1.0	ug/l	1	2110809	11/08/12	11/08/12	EPA 8260B
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	ND	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"
n-Propylbenzene	ND	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
Benzene	ND	0.50	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager



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Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/13/12 16:07

LL_W9_110712_01
T122033-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Tert-butyl alcohol	ND	10	ug/l	1	2110809	11/08/12	11/08/12	EPA 8260B	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.6 %	83.5-119	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane	84.0 %	81-136	"	"	"	"	"	"	
Surrogate: Toluene-d8	119 %	88.8-117	"	"	"	"	"	"	S-GC

SunStar Laboratories, Inc.

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Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/13/12 16:07

LL_W10_110712_01
T122033-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	5100	50	ug/l	1	2110808	11/12/12	11/13/12	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		135 %	65-135		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2110809	11/08/12	11/08/12	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	1.8	1.0	"	"	"	"	"	"	
sec-Butylbenzene	2.0	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	2.3	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	

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Wendy Hsiao, Project Manager



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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/13/12 16:07

LL_W10_110712_01
T122033-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,3-Dichloropropane	ND	1.0	ug/l	1	2110809	11/08/12	11/08/12	EPA 8260B	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	11	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	130	1.0	"	"	"	"	"	"	
n-Propylbenzene	14	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	4.2	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	27	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	930	0.50	"	"	"	"	"	"	E-1
Toluene	7.9	0.50	"	"	"	"	"	"	
Ethylbenzene	120	0.50	"	"	"	"	"	"	
m,p-Xylene	65	1.0	"	"	"	"	"	"	
o-Xylene	2.9	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	65	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Wendy Hsiao

Wendy Hsiao, Project Manager



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949.297.5027 Fax

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/13/12 16:07

LL_W10_110712_01
T122033-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Ethyl tert-butyl ether	ND	2.0	ug/l	1	2110809	11/08/12	11/08/12	EPA 8260B	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		110 %	83.5-119		"	"	"	"	
Surrogate: Dibromofluoromethane		78.5 %	81-136		"	"	"	"	S-GC
Surrogate: Toluene-d8		106 %	88.8-117		"	"	"	"	

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager



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Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/13/12 16:07

LL_TB_110712
T122033-05 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2110809	11/08/12	11/08/12	EPA 8260B
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao

Wendy Hsiao, Project Manager



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Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/13/12 16:07

LL_TB_110712
T122033-05 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

cis-1,3-Dichloropropene	ND	0.50	ug/l	1	2110809	11/08/12	11/08/12	EPA 8260B
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	ND	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"
n-Propylbenzene	ND	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
Benzene	ND	0.50	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"
Tert-butyl alcohol	ND	10	"	"	"	"	"	"
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager



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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/13/12 16:07

LL_TB_110712
T122033-05 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	ug/l	1	2110809	11/08/12	11/08/12	EPA 8260B	
Surrogate: 4-Bromofluorobenzene	95.5 %	83.5-119			"	"	"	"	
Surrogate: Dibromofluoromethane	84.1 %	81-136			"	"	"	"	
Surrogate: Toluene-d8	114 %	88.8-117			"	"	"	"	

SunStar Laboratories, Inc.

Wendy Hsiao, Project Manager

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Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/13/12 16:07

Purgeable Petroleum Hydrocarbons by EPA 8015C - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2110808 - EPA 5030 GC

Blank (2110808-BLK1)

Prepared: 11/12/12 Analyzed: 11/13/12

C6-C12 (GRO)	ND	50	ug/l							
Surrogate 4-Bromofluorobenzene	85.3		"	100		85.3	65-135			

LCS (2110808-BS1)

Prepared: 11/12/12 Analyzed: 11/13/12

C6-C12 (GRO)	4570	50	ug/l	5500		83.1	75-125			
Surrogate 4-Bromofluorobenzene	134		"	100		134	65-135			

LCS Dup (2110808-BSD1)

Prepared: 11/12/12 Analyzed: 11/13/12

C6-C12 (GRO)	5020	50	ug/l	5500		91.3	75-125	9.45	20	
Surrogate 4-Bromofluorobenzene	132		"	100		132	65-135			

SunStar Laboratories, Inc.

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/13/12 16:07

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2110809 - EPA 5030 GCMS

Blank (2110809-BLK1)

Prepared & Analyzed: 11/08/12

Bromobenzene	ND	1.0	ug/l
Bromochloromethane	ND	1.0	"
Bromodichloromethane	ND	1.0	"
Bromoform	ND	1.0	"
Bromomethane	ND	1.0	"
n-Butylbenzene	ND	1.0	"
sec-Butylbenzene	ND	1.0	"
tert-Butylbenzene	ND	1.0	"
Carbon tetrachloride	ND	0.50	"
Chlorobenzene	ND	1.0	"
Chloroethane	ND	1.0	"
Chloroform	ND	1.0	"
Chloromethane	ND	1.0	"
2-Chlorotoluene	ND	1.0	"
4-Chlorotoluene	ND	1.0	"
Dibromochloromethane	ND	1.0	"
1,2-Dibromo-3-chloropropane	ND	1.0	"
1,2-Dibromoethane (EDB)	ND	1.0	"
Dibromomethane	ND	1.0	"
1,2-Dichlorobenzene	ND	1.0	"
1,3-Dichlorobenzene	ND	1.0	"
1,4-Dichlorobenzene	ND	1.0	"
Dichlorodifluoromethane	ND	0.50	"
1,1-Dichloroethane	ND	1.0	"
1,2-Dichloroethane	ND	0.50	"
1,1-Dichloroethene	ND	1.0	"
cis-1,2-Dichloroethene	ND	1.0	"
trans-1,2-Dichloroethene	ND	1.0	"
1,2-Dichloropropane	ND	1.0	"
1,3-Dichloropropane	ND	1.0	"
2,2-Dichloropropane	ND	1.0	"
1,1-Dichloropropene	ND	1.0	"
cis-1,3-Dichloropropene	ND	0.50	"
trans-1,3-Dichloropropene	ND	0.50	"
Hexachlorobutadiene	ND	1.0	"
Isopropylbenzene	ND	1.0	"

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager



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Murex	Project: Cenco	Reported:
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	11/13/12 16:07
Irvine CA, 92861	Project Manager: Jeremy Squire	

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2110809 - EPA 5030 GCMS

Blank (2110809-BLK1)

Prepared & Analyzed: 11/08/12

p-Isopropyltoluene	ND	1.0	ug/l							
Methylene chloride	ND	1.0	"							
Naphthalene	ND	1.0	"							
n-Propylbenzene	ND	1.0	"							
Styrene	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	1.0	"							
1,1,1,2-Tetrachloroethane	ND	1.0	"							
Tetrachloroethene	ND	1.0	"							
1,2,3-Trichlorobenzene	ND	1.0	"							
1,2,4-Trichlorobenzene	ND	1.0	"							
1,1,2-Trichloroethane	ND	1.0	"							
1,1,1-Trichloroethane	ND	1.0	"							
Trichloroethene	ND	1.0	"							
Trichlorofluoromethane	ND	1.0	"							
1,2,3-Trichloropropane	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
Vinyl chloride	ND	1.0	"							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
m,p-Xylene	ND	1.0	"							
o-Xylene	ND	0.50	"							
Tert-amyl methyl ether	ND	2.0	"							
Tert-butyl alcohol	ND	10	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
Methyl tert-butyl ether	ND	1.0	"							
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"							
Surrogate 4-Bromofluorobenzene	7.42		"	8.00		92.8	83.5-119			
Surrogate Dibromofluoromethane	6.06		"	8.00		75.8	81-136			S-GC
Surrogate Toluene-d8	9.20		"	8.00		115	88.8-117			

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager



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Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 11/13/12 16:07
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Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2110809 - EPA 5030 GCMS

LCS (2110809-BS1)

Prepared & Analyzed: 11/08/12

Chlorobenzene	24.2	1.0	ug/l	20.0		121	75-125			
1,1-Dichloroethene	23.4	1.0	"	20.0		117	75-125			
Trichloroethene	24.2	1.0	"	20.0		121	75-125			
Benzene	23.6	0.50	"	20.0		118	75-125			
Toluene	23.2	0.50	"	20.0		116	75-125			
Surrogate 4-Bromofluorobenzene	8.12		"	8.00		102	83.5-119			
Surrogate Dibromofluoromethane	7.49		"	8.00		93.6	81-136			
Surrogate Toluene-d8	9.14		"	8.00		114	88.8-117			

Matrix Spike (2110809-MS1)

Source: T122033-01

Prepared & Analyzed: 11/08/12

Chlorobenzene	24.6	1.0	ug/l	20.0	ND	123	75-125			
1,1-Dichloroethene	24.1	1.0	"	20.0	ND	120	75-125			
Trichloroethene	24.8	1.0	"	20.0	ND	124	75-125			
Benzene	24.4	0.50	"	20.0	0.530	119	75-125			
Toluene	22.8	0.50	"	20.0	0.380	112	75-125			
Surrogate 4-Bromofluorobenzene	8.26		"	8.00		103	83.5-119			
Surrogate Dibromofluoromethane	7.57		"	8.00		94.6	81-136			
Surrogate Toluene-d8	9.01		"	8.00		113	88.8-117			

Matrix Spike Dup (2110809-MSD1)

Source: T122033-01

Prepared & Analyzed: 11/08/12

Chlorobenzene	24.2	1.0	ug/l	20.0	ND	121	75-125	1.76	20	
1,1-Dichloroethene	23.8	1.0	"	20.0	ND	119	75-125	1.04	20	
Trichloroethene	24.4	1.0	"	20.0	ND	122	75-125	1.34	20	
Benzene	24.4	0.50	"	20.0	0.530	119	75-125	0.0411	20	
Toluene	23.5	0.50	"	20.0	0.380	116	75-125	2.72	20	
Surrogate 4-Bromofluorobenzene	8.35		"	8.00		104	83.5-119			
Surrogate Dibromofluoromethane	7.29		"	8.00		91.1	81-136			
Surrogate Toluene-d8	9.08		"	8.00		114	88.8-117			

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager



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Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 11/13/12 16:07
--	--	------------------------------------

Notes and Definitions

S-GC Surrogate recovery outside of established control limits. The data was accepted based on valid recovery of the remaining surrogate(s).

E-1 The final dilution was lower than the original data or previous dilutions. The highest recovered concentration was reported even though it was above calibration range.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager

SunStar Laboratories, Inc.
25712 Commercentre Dr
Lake Forest, CA 92630
949-297-5020

Chain of Custody Record

Client: MUREX ENVIRONMENTAL INC.

Address: 2640 Walnut Ave, Unit F

Phone: (714) 508-0800 Fax: (714) 508-0880

Project Manager: Jeremy Squire (714) 604-5836

Date: 11.7.2012

Project Name: CENCO

Collector: Frane Sosic

Batch #: T122033

Page: 1 OF 1

Client Project #: 1003-001-300

EDF #:

Sample ID	Date Sampled	Time	Sample Type	TPHg (8015 M)	VOCs (8260 B)												Total # of containers	Comments/Preservative	Laboratory ID #
LL-W7-110712-01	11.7.12	0845	GW	X	X												6		01
LL-W8-110712-01	11.7.12	1037	GW	X	X												6		02
LL-W9-110712-01	11.7.12	1226	GW	X	X												6		03
LL-W10-110712-01	11.7.12	1544	GW	X	X												6		04
LL-TB-110712			Water		X												2		05

Sample disposal Instructions: Disposal @ \$2.00 each _____ Return to client _____ Pickup _____

SAMPLE RECEIVING REVIEW SHEET

BATCH # 7122033

Client Name: MUREX

Project: CENCO

Received by: Dan

Date/Time Received: 11.7.12 / 16:40

Delivered by: ☐ Client ☒ SunStar Courier ☐ GSO ☐ FedEx ☐ Other _____

Total number of coolers received 0 Temp criteria = 6°C > 0°C (no frozen containers)

Temperature: cooler #1 2.4 °C +/- the CF (- 0.2°C) = 2.2 °C corrected temperature

cooler #2 _____ °C +/- the CF (- 0.2°C) = _____ °C corrected temperature

cooler #3 _____ °C +/- the CF (- 0.2°C) = _____ °C corrected temperature

Samples outside temp. but received on ice, w/in 6 hours of final sampling. ☒ Yes ☐ No* ☐ N/A

Custody Seals Intact on Cooler/Sample ☐ Yes ☐ No* ☒ N/A

Sample Containers Intact ☒ Yes ☐ No*

Sample labels match COC ID's ☒ Yes ☐ No*

Total number of containers received match COC ☒ Yes ☐ No*

Proper containers received for analyses requested on COC ☒ Yes ☐ No*

Proper preservative indicated on COC/containers for analyses requested ☒ Yes ☐ No* ☐ N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times. ☒ Yes ☐ No*

* Complete Non-Conformance Receiving Sheet if checked

Cooler/Sample Review - Initials and date SL 11.8.12

Comments:



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15 November 2012

Jeremy Squire
Murex
15375 Barranca Parkway, Suite K-101
Irvine, CA 92861
RE: Cenco

Enclosed are the results of analyses for samples received by the laboratory on 11/09/12 15:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Wendy Hsiao
Project Manager



25712 Commercentre Drive
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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/15/12 15:57

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LL_W11_110812_01	T122063-01	Water	11/08/12 12:38	11/09/12 15:30
LL_W12_110812_01	T122063-02	Water	11/08/12 16:00	11/09/12 15:30
LL_TB_110912	T122063-03	Water	11/09/12 00:00	11/09/12 15:30

SunStar Laboratories, Inc.

Wendy Hsiao, Project Manager

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25712 Commercentre Drive
Lake Forest, California 92630
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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/15/12 15:57

LL_W11_110812_01

T122063-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	340	50	ug/l	1	2111227	11/12/12	11/15/12	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		121 %	65-135		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2111225	11/12/12	11/14/12	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	1.7	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	

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Wendy Hsiao

Wendy Hsiao, Project Manager

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/15/12 15:57

LL_W11_110812_01
T122063-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,2-Dichloropropane	ND	1.0	ug/l	1	2111225	11/12/12	11/14/12	EPA 8260B
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	ND	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	2.5	1.0	"	"	"	"	"	"
n-Propylbenzene	ND	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	63	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	5.0	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
Benzene	23	0.50	"	"	"	"	"	"
Toluene	3.1	0.50	"	"	"	"	"	"
Ethylbenzene	1.6	0.50	"	"	"	"	"	"
m,p-Xylene	23	1.0	"	"	"	"	"	"
o-Xylene	2.0	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"

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Wendy Hsiao, Project Manager



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Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/15/12 15:57

LL_W11_110812_01
T122063-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Tert-butyl alcohol	ND	10	ug/l	1	2111225	11/12/12	11/14/12	EPA 8260B	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.9 %	83.5-119		"	"	"	"	
Surrogate: Dibromofluoromethane		91.2 %	81-136		"	"	"	"	
Surrogate: Toluene-d8		119 %	88.8-117		"	"	"	"	S-GC

SunStar Laboratories, Inc.

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Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 11/15/12 15:57
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LL_W12_110812_01
T122063-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	ND	50	ug/l	1	2111227	11/12/12	11/15/12	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		102 %	65-135		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2111225	11/12/12	11/14/12	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Wendy Hsiao

Wendy Hsiao, Project Manager

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/15/12 15:57

LL_W12_110812_01
T122063-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,2-Dichloropropane	ND	1.0	ug/l	1	2111225	11/12/12	11/14/12	EPA 8260B
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	ND	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"
n-Propylbenzene	ND	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
Benzene	ND	0.50	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/15/12 15:57

LL_W12_110812_01
T122063-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Tert-butyl alcohol	ND	10	ug/l	1	2111225	11/12/12	11/14/12	EPA 8260B
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene		93.4 %	83.5-119		"	"	"	"
Surrogate: Dibromofluoromethane		97.0 %	81-136		"	"	"	"
Surrogate: Toluene-d8		112 %	88.8-117		"	"	"	"

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Wendy Hsiao, Project Manager

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/15/12 15:57

LL_TB_110912
T122063-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2111225	11/12/12	11/14/12	EPA 8260B
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"

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Wendy Hsiao, Project Manager



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Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/15/12 15:57

LL_TB_110912
T122063-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

cis-1,3-Dichloropropene	ND	0.50	ug/l	1	2111225	11/12/12	11/14/12	EPA 8260B
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	ND	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"
n-Propylbenzene	ND	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
Benzene	ND	0.50	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"
Tert-butyl alcohol	ND	10	"	"	"	"	"	"
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao

Wendy Hsiao, Project Manager



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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/15/12 15:57

LL_TB_110912
T122063-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	ug/l	1	2111225	11/12/12	11/14/12	EPA 8260B	
Surrogate: 4-Bromofluorobenzene	93.5 %	83.5-119			"	"	"	"	
Surrogate: Dibromofluoromethane	91.9 %	81-136			"	"	"	"	
Surrogate: Toluene-d8	115 %	88.8-117			"	"	"	"	

SunStar Laboratories, Inc.

Wendy Hsiao, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



25712 Commercentre Drive
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949.297.5020 Phone
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Murex	Project: Cenco	Reported:
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	11/15/12 15:57
Irvine CA, 92861	Project Manager: Jeremy Squire	

Purgeable Petroleum Hydrocarbons by EPA 8015C - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2111227 - EPA 5030 GC										
Blank (2111227-BLK1)				Prepared: 11/12/12 Analyzed: 11/15/12						
C6-C12 (GRO)	ND	50	ug/l							
Surrogate 4-Bromofluorobenzene	94.9		"	100		94.9	65-135			
LCS (2111227-BS1)				Prepared: 11/12/12 Analyzed: 11/15/12						
C6-C12 (GRO)	4980	50	ug/l	5500		90.5	75-125			
Surrogate 4-Bromofluorobenzene	135		"	100		135	65-135			
Matrix Spike (2111227-MS1)				Source: T122063-01		Prepared: 11/12/12 Analyzed: 11/15/12				
C6-C12 (GRO)	4860	50	ug/l	5500	343	82.1	65-135			
Surrogate 4-Bromofluorobenzene	127		"	100		127	65-135			
Matrix Spike Dup (2111227-MSD1)				Source: T122063-01		Prepared: 11/12/12 Analyzed: 11/15/12				
C6-C12 (GRO)	4790	50	ug/l	5500	343	80.8	65-135	1.45	20	
Surrogate 4-Bromofluorobenzene	132		"	100		132	65-135			

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Wendy Hsiao, Project Manager

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/15/12 15:57

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2111225 - EPA 5030 GCMS

Blank (2111225-BLK1)

Prepared: 11/12/12 Analyzed: 11/14/12

Bromobenzene	ND	1.0	ug/l
Bromochloromethane	ND	1.0	"
Bromodichloromethane	ND	1.0	"
Bromoform	ND	1.0	"
Bromomethane	ND	1.0	"
n-Butylbenzene	ND	1.0	"
sec-Butylbenzene	ND	1.0	"
tert-Butylbenzene	ND	1.0	"
Carbon tetrachloride	ND	0.50	"
Chlorobenzene	ND	1.0	"
Chloroethane	ND	1.0	"
Chloroform	ND	1.0	"
Chloromethane	ND	1.0	"
2-Chlorotoluene	ND	1.0	"
4-Chlorotoluene	ND	1.0	"
Dibromochloromethane	ND	1.0	"
1,2-Dibromo-3-chloropropane	ND	1.0	"
1,2-Dibromoethane (EDB)	ND	1.0	"
Dibromomethane	ND	1.0	"
1,2-Dichlorobenzene	ND	1.0	"
1,3-Dichlorobenzene	ND	1.0	"
1,4-Dichlorobenzene	ND	1.0	"
Dichlorodifluoromethane	ND	0.50	"
1,1-Dichloroethane	ND	1.0	"
1,2-Dichloroethane	ND	0.50	"
1,1-Dichloroethene	ND	1.0	"
cis-1,2-Dichloroethene	ND	1.0	"
trans-1,2-Dichloroethene	ND	1.0	"
1,2-Dichloropropane	ND	1.0	"
1,3-Dichloropropane	ND	1.0	"
2,2-Dichloropropane	ND	1.0	"
1,1-Dichloropropene	ND	1.0	"
cis-1,3-Dichloropropene	ND	0.50	"
trans-1,3-Dichloropropene	ND	0.50	"
Hexachlorobutadiene	ND	1.0	"
Isopropylbenzene	ND	1.0	"

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager



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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/15/12 15:57

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2111225 - EPA 5030 GCMS

Blank (2111225-BLK1)

Prepared: 11/12/12 Analyzed: 11/14/12

p-Isopropyltoluene	ND	1.0	ug/l
Methylene chloride	ND	1.0	"
Naphthalene	ND	1.0	"
n-Propylbenzene	ND	1.0	"
Styrene	ND	1.0	"
1,1,2,2-Tetrachloroethane	ND	1.0	"
1,1,1,2-Tetrachloroethane	ND	1.0	"
Tetrachloroethene	ND	1.0	"
1,2,3-Trichlorobenzene	ND	1.0	"
1,2,4-Trichlorobenzene	ND	1.0	"
1,1,2-Trichloroethane	ND	1.0	"
1,1,1-Trichloroethane	ND	1.0	"
Trichloroethene	ND	1.0	"
Trichlorofluoromethane	ND	1.0	"
1,2,3-Trichloropropane	ND	1.0	"
1,3,5-Trimethylbenzene	ND	1.0	"
1,2,4-Trimethylbenzene	ND	1.0	"
Vinyl chloride	ND	1.0	"
Benzene	ND	0.50	"
Toluene	ND	0.50	"
Ethylbenzene	ND	0.50	"
m,p-Xylene	ND	1.0	"
o-Xylene	ND	0.50	"
Tert-amyl methyl ether	ND	2.0	"
Tert-butyl alcohol	ND	10	"
Di-isopropyl ether	ND	2.0	"
Ethyl tert-butyl ether	ND	2.0	"
Methyl tert-butyl ether	ND	1.0	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"
Surrogate 4-Bromofluorobenzene	7.37		"
Surrogate Dibromofluoromethane	7.71		"
Surrogate Toluene-d8	9.06		"

8.00 92.1 83.5-119
8.00 96.4 81-136
8.00 113 88.8-117

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager



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Murex	Project: Cenco	Reported:
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	11/15/12 15:57
Irvine CA, 92861	Project Manager: Jeremy Squire	

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2111225 - EPA 5030 GCMS

LCS (2111225-BS1)

Prepared: 11/12/12 Analyzed: 11/14/12

Chlorobenzene	21.4	1.0	ug/l	20.0		107	75-125			
1,1-Dichloroethene	17.6	1.0	"	20.0		88.0	75-125			
Trichloroethene	20.2	1.0	"	20.0		101	75-125			
Benzene	23.7	0.50	"	20.0		119	75-125			
Toluene	21.7	0.50	"	20.0		109	75-125			
Surrogate 4-Bromofluorobenzene	6.86		"	8.00		85.8	83.5-119			
Surrogate Dibromofluoromethane	8.33		"	8.00		104	81-136			
Surrogate Toluene-d8	7.33		"	8.00		91.6	88.8-117			

Matrix Spike (2111225-MS1)

Source: T122063-01

Prepared: 11/12/12 Analyzed: 11/14/12

Chlorobenzene	21.5	1.0	ug/l	20.0	ND	108	75-125			
1,1-Dichloroethene	16.5	1.0	"	20.0	ND	82.6	75-125			
Trichloroethene	21.4	1.0	"	20.0	ND	107	75-125			
Benzene	48.9	0.50	"	20.0	22.7	131	75-125			QM-07
Toluene	27.2	0.50	"	20.0	3.09	120	75-125			
Surrogate 4-Bromofluorobenzene	7.14		"	8.00		89.2	83.5-119			
Surrogate Dibromofluoromethane	8.66		"	8.00		108	81-136			
Surrogate Toluene-d8	7.94		"	8.00		99.2	88.8-117			

Matrix Spike Dup (2111225-MSD1)

Source: T122063-01

Prepared: 11/12/12 Analyzed: 11/14/12

Chlorobenzene	22.0	1.0	ug/l	20.0	ND	110	75-125	2.21	20	
1,1-Dichloroethene	17.8	1.0	"	20.0	ND	89.1	75-125	7.63	20	
Trichloroethene	20.2	1.0	"	20.0	ND	101	75-125	5.68	20	
Benzene	45.8	0.50	"	20.0	22.7	116	75-125	6.42	20	
Toluene	25.0	0.50	"	20.0	3.09	109	75-125	8.44	20	
Surrogate 4-Bromofluorobenzene	7.03		"	8.00		87.9	83.5-119			
Surrogate Dibromofluoromethane	8.48		"	8.00		106	81-136			
Surrogate Toluene-d8	7.18		"	8.00		89.8	88.8-117			

SunStar Laboratories, Inc.

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Wendy Hsiao

Wendy Hsiao, Project Manager



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Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 11/15/12 15:57
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Notes and Definitions

S-GC Surrogate recovery outside of established control limits. The data was accepted based on valid recovery of the remaining surrogate(s).

QM-07 The spike recovery and or RPD was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager

949-297-5020

Sample disposal Instructions: Disposal @ \$2.00 each _____ Return to client _____ Pickup _____

SAMPLE RECEIVING REVIEW SHEET

BATCH # 7122063

Client Name: MUREX

Project: CENCD

Received by: DAN

Date/Time Received: 11.9.12 / 15:30

Delivered by : ☐ Client ☒ SunStar Courier ☐ GSO ☐ FedEx ☐ Other _____

Total number of coolers received 0 Temp criteria = 6°C > 0°C (no frozen containers)

Temperature: cooler #1 4.4 °C +/- the CF (- 0.2°C) = 4.2 °C corrected temperature

cooler #2 _____ °C +/- the CF (- 0.2°C) = _____ °C corrected temperature

cooler #3 _____ °C +/- the CF (- 0.2°C) = _____ °C corrected temperature

Samples outside temp. but received on ice, w/in 6 hours of final sampling. ☒ Yes ☐ No* ☐ N/A

Custody Seals Intact on Cooler/Sample ☐ Yes ☐ No* ☒ N/A

Sample Containers Intact ☒ Yes ☐ No*

Sample labels match COC ID's ☒ Yes ☐ No*

Total number of containers received match COC ☒ Yes ☐ No*

Proper containers received for analyses requested on COC ☒ Yes ☐ No*

Proper preservative indicated on COC/containers for analyses requested ☒ Yes ☐ No* ☐ N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times. ☒ Yes ☐ No*

* Complete Non-Conformance Receiving Sheet if checked

Cooler/Sample Review - Initials and date SR 11.10.12

Comments:



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19 November 2012

Jeremy Squire
Murex
15375 Barranca Parkway, Suite K-101
Irvine, CA 92861
RE: Cenco

Enclosed are the results of analyses for samples received by the laboratory on 11/13/12 16:22. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Wendy Hsiao
Project Manager



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949.297.5027 Fax

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/19/12 15:53

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LL_EW1_111312_01	T122090-01	Water	11/13/12 12:00	11/13/12 16:22
LL_701_111312_01	T122090-02	Water	11/13/12 14:27	11/13/12 16:22
LL_702_111312_01	T122090-03	Water	11/13/12 16:06	11/13/12 16:22
LL_TB_111312	T122090-04	Water	11/13/12 00:00	11/13/12 16:22

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Wendy Hsiao, Project Manager



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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/19/12 15:53

LL_EW1_111312_01
T122090-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	2900	50	ug/l	1	2111415	11/14/12	11/15/12	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		563 %	65-135		"	"	"	"	S-04

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2111417	11/14/12	11/16/12	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	10	1.0	"	"	"	"	"	"	
sec-Butylbenzene	12	1.0	"	"	"	"	"	"	
tert-Butylbenzene	1.5	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	

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Wendy Hsiao

Wendy Hsiao, Project Manager



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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/19/12 15:53

LL_EW1_111312_01
T122090-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,2-Dichloropropane	ND	1.0	ug/l	1	2111417	11/14/12	11/16/12	EPA 8260B
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	22	1.0	"	"	"	"	"	"
p-Isopropyltoluene	1.1	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	120	1.0	"	"	"	"	"	"
n-Propylbenzene	27	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	1.3	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
Benzene	ND	0.50	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"
Ethylbenzene	5.8	0.50	"	"	"	"	"	"
m,p-Xylene	1.4	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao

Wendy Hsiao, Project Manager

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/19/12 15:53

LL_EW1_111312_01
T122090-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Tert-butyl alcohol	ND	10	ug/l	1	2111417	11/14/12	11/16/12	EPA 8260B
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene		104 %	83.5-119		"	"	"	"
Surrogate: Dibromofluoromethane		89.4 %	81-136		"	"	"	"
Surrogate: Toluene-d8		109 %	88.8-117		"	"	"	"

SunStar Laboratories, Inc.



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Wendy Hsiao, Project Manager



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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/19/12 15:53

LL_701_111312_01
T122090-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	300	50	ug/l	1	2111415	11/14/12	11/15/12	EPA 8015C	
Surrogate: 4-Bromofluorobenzene	133 %	65-135	"	"	"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2111417	11/14/12	11/16/12	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	5.1	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	18	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	3.1	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Wendy Hsiao

Wendy Hsiao, Project Manager



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Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/19/12 15:53

LL_701_111312_01
T122090-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,3-Dichloropropane	ND	1.0	ug/l	1	2111417	11/14/12	11/16/12	EPA 8260B
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	ND	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"
n-Propylbenzene	ND	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	5.9	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
Vinyl chloride	31	1.0	"	"	"	"	"	"
Benzene	0.95	0.50	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"
Tert-butyl alcohol	ND	10	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/19/12 15:53

LL_701_111312_01
T122090-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Di-isopropyl ether	ND	2.0	ug/l	1	2111417	11/14/12	11/16/12	EPA 8260B
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene		92.4 %	83.5-119		"	"	"	"
Surrogate: Dibromofluoromethane		88.6 %	81-136		"	"	"	"
Surrogate: Toluene-d8		108 %	88.8-117		"	"	"	"

SunStar Laboratories, Inc.

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Project Manager: Jeremy Squire

Reported:
11/19/12 15:53

LL_702_111312_01
T122090-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	65	50	ug/l	1	2111415	11/14/12	11/15/12	EPA 8015C
Surrogate: 4-Bromofluorobenzene		123 %	65-135		"	"	"	"

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2111417	11/14/12	11/16/12	EPA 8260B
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	1.2	1.0	"	"	"	"	"	"
sec-Butylbenzene	1.0	1.0	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"

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Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/19/12 15:53

LL_702_111312_01
T122090-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,3-Dichloropropane	ND	1.0	ug/l	1	2111417	11/14/12	11/16/12	EPA 8260B
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	4.4	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	3.5	1.0	"	"	"	"	"	"
n-Propylbenzene	4.0	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
Benzene	17	0.50	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"
Tert-butyl alcohol	ND	10	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/19/12 15:53

LL_702_111312_01
T122090-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Di-isopropyl ether	ND	2.0	ug/l	1	2111417	11/14/12	11/16/12	EPA 8260B
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene		92.6 %	83.5-119		"	"	"	"
Surrogate: Dibromofluoromethane		86.9 %	81-136		"	"	"	"
Surrogate: Toluene-d8		107 %	88.8-117		"	"	"	"

SunStar Laboratories, Inc.

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Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/19/12 15:53

LL_TB_111312
T122090-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2111417	11/14/12	11/16/12	EPA 8260B
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"

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Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/19/12 15:53

LL_TB_111312
T122090-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

cis-1,3-Dichloropropene	ND	0.50	ug/l	1	2111417	11/14/12	11/16/12	EPA 8260B
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	ND	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"
n-Propylbenzene	ND	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
Benzene	ND	0.50	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"
Tert-butyl alcohol	ND	10	"	"	"	"	"	"
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"

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Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/19/12 15:53

LL_TB_111312
T122090-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	ug/l	1	2111417	11/14/12	11/16/12	EPA 8260B
Surrogate: 4-Bromofluorobenzene	86.6 %	83.5-119	"	"	"	"	"	"
Surrogate: Dibromofluoromethane	90.4 %	81-136	"	"	"	"	"	"
Surrogate: Toluene-d8	105 %	88.8-117	"	"	"	"	"	"

SunStar Laboratories, Inc.

Wendy Hsiao, Project Manager

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Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/19/12 15:53

Purgeable Petroleum Hydrocarbons by EPA 8015C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2111415 - EPA 5030 GC

Blank (2111415-BLK1)

Prepared: 11/14/12 Analyzed: 11/15/12

C6-C12 (GRO)	ND	50	ug/l							
Surrogate 4-Bromofluorobenzene	97.1		"	100		97.1	65-135			

LCS (2111415-BS1)

Prepared: 11/14/12 Analyzed: 11/15/12

C6-C12 (GRO)	4160	50	ug/l	5500		75.7	75-125			
Surrogate 4-Bromofluorobenzene	135		"	100		135	65-135			

Matrix Spike (2111415-MS1)

Source: T122090-02

Prepared: 11/14/12 Analyzed: 11/15/12

C6-C12 (GRO)	3750	50	ug/l	5500	300	62.7	65-135			QM-05
Surrogate 4-Bromofluorobenzene	135		"	100		135	65-135			

Matrix Spike Dup (2111415-MSD1)

Source: T122090-02

Prepared: 11/14/12 Analyzed: 11/15/12

C6-C12 (GRO)	3780	50	ug/l	5500	300	63.2	65-135	0.799	20	QM-05
Surrogate 4-Bromofluorobenzene	135		"	100		135	65-135			

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager



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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/19/12 15:53

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2111417 - EPA 5030 GCMS

Blank (2111417-BLK1)

Prepared: 11/14/12 Analyzed: 11/16/12

Bromobenzene	ND	1.0	ug/l
Bromochloromethane	ND	1.0	"
Bromodichloromethane	ND	1.0	"
Bromoform	ND	1.0	"
Bromomethane	ND	1.0	"
n-Butylbenzene	ND	1.0	"
sec-Butylbenzene	ND	1.0	"
tert-Butylbenzene	ND	1.0	"
Carbon tetrachloride	ND	0.50	"
Chlorobenzene	ND	1.0	"
Chloroethane	ND	1.0	"
Chloroform	ND	1.0	"
Chloromethane	ND	1.0	"
2-Chlorotoluene	ND	1.0	"
4-Chlorotoluene	ND	1.0	"
Dibromochloromethane	ND	1.0	"
1,2-Dibromo-3-chloropropane	ND	1.0	"
1,2-Dibromoethane (EDB)	ND	1.0	"
Dibromomethane	ND	1.0	"
1,2-Dichlorobenzene	ND	1.0	"
1,3-Dichlorobenzene	ND	1.0	"
1,4-Dichlorobenzene	ND	1.0	"
Dichlorodifluoromethane	ND	0.50	"
1,1-Dichloroethane	ND	1.0	"
1,2-Dichloroethane	ND	0.50	"
1,1-Dichloroethene	ND	1.0	"
cis-1,2-Dichloroethene	ND	1.0	"
trans-1,2-Dichloroethene	ND	1.0	"
1,2-Dichloropropane	ND	1.0	"
1,3-Dichloropropane	ND	1.0	"
2,2-Dichloropropane	ND	1.0	"
1,1-Dichloropropene	ND	1.0	"
cis-1,3-Dichloropropene	ND	0.50	"
trans-1,3-Dichloropropene	ND	0.50	"
Hexachlorobutadiene	ND	1.0	"
Isopropylbenzene	ND	1.0	"

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Wendy Hsiao, Project Manager



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Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/19/12 15:53

Volatil Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2111417 - EPA 5030 GCMS

Blank (2111417-BLK1)

Prepared: 11/14/12 Analyzed: 11/16/12

p-Isopropyltoluene	ND	1.0	ug/l
Methylene chloride	ND	1.0	"
Naphthalene	ND	1.0	"
n-Propylbenzene	ND	1.0	"
Styrene	ND	1.0	"
1,1,2,2-Tetrachloroethane	ND	1.0	"
1,1,1,2-Tetrachloroethane	ND	1.0	"
Tetrachloroethene	ND	1.0	"
1,2,3-Trichlorobenzene	ND	1.0	"
1,2,4-Trichlorobenzene	ND	1.0	"
1,1,2-Trichloroethane	ND	1.0	"
1,1,1-Trichloroethane	ND	1.0	"
Trichloroethene	ND	1.0	"
Trichlorofluoromethane	ND	1.0	"
1,2,3-Trichloropropane	ND	1.0	"
1,3,5-Trimethylbenzene	ND	1.0	"
1,2,4-Trimethylbenzene	ND	1.0	"
Vinyl chloride	ND	1.0	"
Benzene	ND	0.50	"
Toluene	ND	0.50	"
Ethylbenzene	ND	0.50	"
m,p-Xylene	ND	1.0	"
o-Xylene	ND	0.50	"
Tert-amyl methyl ether	ND	2.0	"
Tert-butyl alcohol	ND	10	"
Di-isopropyl ether	ND	2.0	"
Ethyl tert-butyl ether	ND	2.0	"
Methyl tert-butyl ether	ND	1.0	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"
Surrogate 4-Bromofluorobenzene	7.06		"
Surrogate Dibromofluoromethane	7.06		"
Surrogate Toluene-d8	8.56		"

8.00 88.2 83.5-119
8.00 88.2 81-136
8.00 107 88.8-117

SunStar Laboratories, Inc.

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Wendy Hsiao

Wendy Hsiao, Project Manager



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Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/19/12 15:53

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2111417 - EPA 5030 GCMS

LCS (2111417-BS1)

Prepared: 11/14/12 Analyzed: 11/16/12

Chlorobenzene	18.0	1.0	ug/l	20.0		90.0	75-125			
1,1-Dichloroethene	21.0	1.0	"	20.0		105	75-125			
Trichloroethene	17.9	1.0	"	20.0		89.6	75-125			
Benzene	20.2	0.50	"	20.0		101	75-125			
Toluene	17.5	0.50	"	20.0		87.6	75-125			
Surrogate 4-Bromofluorobenzene	7.71		"	8.00		96.4	83.5-119			
Surrogate Dibromofluoromethane	7.67		"	8.00		95.9	81-136			
Surrogate Toluene-d8	8.12		"	8.00		102	88.8-117			

Matrix Spike (2111417-MS1)

Source: T122090-02

Prepared: 11/14/12 Analyzed: 11/16/12

Chlorobenzene	20.1	1.0	ug/l	20.0	ND	100	75-125			
1,1-Dichloroethene	27.0	1.0	"	20.0	5.13	110	75-125			
Trichloroethene	23.2	1.0	"	20.0	5.89	86.6	75-125			
Benzene	22.8	0.50	"	20.0	0.950	109	75-125			
Toluene	19.4	0.50	"	20.0	ND	96.8	75-125			
Surrogate 4-Bromofluorobenzene	8.05		"	8.00		101	83.5-119			
Surrogate Dibromofluoromethane	7.73		"	8.00		96.6	81-136			
Surrogate Toluene-d8	8.12		"	8.00		102	88.8-117			

Matrix Spike Dup (2111417-MSD1)

Source: T122090-02

Prepared: 11/14/12 Analyzed: 11/16/12

Chlorobenzene	19.7	1.0	ug/l	20.0	ND	98.4	75-125	2.06	20	
1,1-Dichloroethene	26.5	1.0	"	20.0	5.13	107	75-125	1.87	20	
Trichloroethene	23.0	1.0	"	20.0	5.89	85.4	75-125	1.13	20	
Benzene	22.2	0.50	"	20.0	0.950	106	75-125	2.93	20	
Toluene	19.0	0.50	"	20.0	ND	94.8	75-125	2.09	20	
Surrogate 4-Bromofluorobenzene	7.98		"	8.00		99.8	83.5-119			
Surrogate Dibromofluoromethane	7.43		"	8.00		92.9	81-136			
Surrogate Toluene-d8	8.16		"	8.00		102	88.8-117			

SunStar Laboratories, Inc.

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Wendy Hsiao

Wendy Hsiao, Project Manager



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Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 11/19/12 15:53
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Notes and Definitions

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to possible matrix interference. The LCS was within acceptance criteria. The data is acceptable as no negative impact on data is expected.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager

Chain of Custody Record

Date: 11.13.12 Page: 1 Of 1
Project Name: CENCO
Collector: FS Client Project #: 1003-001-300
Batch #: T122090 EDF #:

Sample disposal Instructions: Disposal @ \$2.00 each _____ Return to client _____ Pickup _____

COC 101464

SAMPLE RECEIVING REVIEW SHEET

BATCH # 7122090

Client Name: MUREX

Project: Cemo

Received by: DAN

Date/Time Received: 11/13/12

Delivered by : ☐ Client ☒ SunStar Courier ☐ GSO ☐ FedEx ☐ Other _____

Total number of coolers received 0 Temp criteria = 6°C > 0°C (no frozen containers)

Temperature: cooler #1 2.0 °C +/- the CF (- 0.2°C) = 1.8 °C corrected temperature

cooler #2 _____ °C +/- the CF (- 0.2°C) = _____ °C corrected temperature

cooler #3 _____ °C +/- the CF (- 0.2°C) = _____ °C corrected temperature

Samples outside temp. but received on ice, w/in 6 hours of final sampling. ☒ Yes ☐ No* ☐ N/A

Custody Seals Intact on Cooler/Sample ☐ Yes ☐ No* ☒ N/A

Sample Containers Intact ☒ Yes ☐ No*

Sample labels match COC ID's ☒ Yes ☐ No*

Total number of containers received match COC ☒ Yes ☐ No*

Proper containers received for analyses requested on COC ☒ Yes ☐ No*

Proper preservative indicated on COC/containers for analyses requested ☒ Yes ☐ No* ☐ N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times. ☒ Yes ☐ No*

* Complete Non-Conformance Receiving Sheet if checked

Cooler/Sample Review - Initials and date SL 11/14/12

Comments:



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28 November 2012

Jeremy Squire
Murex
15375 Barranca Parkway, Suite K-101
Irvine, CA 92861
RE: Cenco

Enclosed are the results of analyses for samples received by the laboratory on 11/15/12 17:07. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Wendy Hsiao
Project Manager



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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/28/12 13:25

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LL_703_111412_01	T122120-01	Water	11/14/12 09:24	11/15/12 17:07
LL_704_111412_01	T122120-02	Water	11/14/12 13:33	11/15/12 17:07
LL_704_111412_02	T122120-03	Water	11/14/12 14:00	11/15/12 17:07
LL_705_111412_01	T122120-04	Water	11/14/12 16:20	11/15/12 17:07
LL_705_111412_02	T122120-05	Water	11/14/12 16:35	11/15/12 17:07
LL_706_111512_01	T122120-06	Water	11/15/12 13:34	11/15/12 17:07
LL_706_111512_02	T122120-07	Water	11/15/12 14:16	11/15/12 17:07
LL_707_111512_01	T122120-08	Water	11/15/12 16:00	11/15/12 17:07
LL_TB_111512	T122120-09	Water	11/15/12 00:00	11/15/12 17:07

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Wendy Hsiao, Project Manager



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Murex
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Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/28/12 13:25

LL_703_111412_01

T122120-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	280	50	ug/l	1	2111610	11/16/12	11/19/12	EPA 8015C
Surrogate: 4-Bromofluorobenzene		132 %	65-135		"	"	"	"

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2111612	11/16/12	11/17/12	EPA 8260B
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	2.5	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	14	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao

Wendy Hsiao, Project Manager



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15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/28/12 13:25

LL_703_111412_01
T122120-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,2-Dichloropropane	ND	1.0	ug/l	1	2111612	11/16/12	11/17/12	EPA 8260B
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	ND	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"
n-Propylbenzene	ND	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
Vinyl chloride	9.5	1.0	"	"	"	"	"	"
Benzene	4.1	0.50	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager



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Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/28/12 13:25

LL_703_111412_01
T122120-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Tert-butyl alcohol	ND	10	ug/l	1	2111612	11/16/12	11/17/12	EPA 8260B
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene		92.6 %	83.5-119		"	"	"	"
Surrogate: Dibromofluoromethane		94.8 %	81-136		"	"	"	"
Surrogate: Toluene-d8		106 %	88.8-117		"	"	"	"

SunStar Laboratories, Inc.

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Murex	Project: Cenco	Reported:
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	11/28/12 13:25
Irvine CA, 92861	Project Manager: Jeremy Squire	

LL_704_111412_01
T122120-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	8700	250	ug/l	5	2111610	11/16/12	11/19/12	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		133 %	65-135		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2111612	11/16/12	11/17/12	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	22	1.0	"	"	"	"	"	"	
sec-Butylbenzene	16	1.0	"	"	"	"	"	"	
tert-Butylbenzene	2.5	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	2.1	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	27	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager



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Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/28/12 13:25

LL_704_111412_01
T122120-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,3-Dichloropropane	ND	1.0	ug/l	1	2111612	11/16/12	11/17/12	EPA 8260B	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	120	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	18	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	150	1.0	"	"	"	"	"	"	E-1
n-Propylbenzene	120	50	"	50	"	"	"	"	
Styrene	ND	1.0	"	1	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	2.1	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	430	50	"	50	"	"	"	"	
1,2,4-Trimethylbenzene	1000	50	"	"	"	"	"	"	
Vinyl chloride	2.2	1.0	"	1	"	"	"	"	
Benzene	2200	25	"	50	"	"	"	"	
Toluene	150	0.50	"	1	"	"	"	"	
Ethylbenzene	1200	25	"	50	"	"	"	"	
m,p-Xylene	1700	50	"	"	"	"	"	"	
o-Xylene	170	0.50	"	1	"	"	"	"	E-1
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	60	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	

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Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/28/12 13:25

LL_704_111412_01
T122120-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Ethyl tert-butyl ether	ND	2.0	ug/l	1	2111612	11/16/12	11/17/12	EPA 8260B	
Methyl tert-butyl ether	610	50	"	50	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	83.5-119		"	"	"	"	
Surrogate: Dibromofluoromethane		78.5 %	81-136		"	"	"	"	S-GC
Surrogate: Toluene-d8		106 %	88.8-117		"	"	"	"	

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Reported:
11/28/12 13:25

LL_704_111412_02
T122120-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	14000	500	ug/l	10	2111610	11/16/12	11/19/12	EPA 8015C
Surrogate: 4-Bromofluorobenzene		133 %	65-135		"	"	"	"

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2111612	11/16/12	11/17/12	EPA 8260B
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	23	1.0	"	"	"	"	"	"
sec-Butylbenzene	18	1.0	"	"	"	"	"	"
tert-Butylbenzene	2.7	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	2.1	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	18	0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"

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Project Number: 1003-001-300
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Reported:
11/28/12 13:25

LL_704_111412_02
T122120-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,3-Dichloropropane	ND	1.0	ug/l	1	2111612	11/16/12	11/17/12	EPA 8260B
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	120	1.0	"	"	"	"	"	"
p-Isopropyltoluene	19	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	100	50	"	50	"	"	"	"
n-Propylbenzene	140	50	"	"	"	"	"	"
Styrene	ND	1.0	"	1	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	2.3	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	440	50	"	50	"	"	"	"
1,2,4-Trimethylbenzene	1100	50	"	"	"	"	"	"
Vinyl chloride	2.4	1.0	"	1	"	"	"	"
Benzene	1800	25	"	50	"	"	"	"
Toluene	120	25	"	"	"	"	"	"
Ethylbenzene	1200	25	"	"	"	"	"	"
m,p-Xylene	1500	50	"	"	"	"	"	"
o-Xylene	150	25	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	1	"	"	"	"
Tert-butyl alcohol	43	10	"	"	"	"	"	"
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"

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Project Manager: Jeremy Squire

Reported:
11/28/12 13:25

LL_704_111412_02
T122120-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Ethyl tert-butyl ether	ND	2.0	ug/l	1	2111612	11/16/12	11/17/12	EPA 8260B	
Methyl tert-butyl ether	260	50	"	50	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	1	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	83.5-119		"	"	"	"	
Surrogate: Dibromofluoromethane		74.2 %	81-136		"	"	"	"	S-GC
Surrogate: Toluene-d8		107 %	88.8-117		"	"	"	"	

SunStar Laboratories, Inc.

Wendy Hsiao, Project Manager

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Project Manager: Jeremy Squire

Reported:
11/28/12 13:25

LL_705_111412_01
T122120-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	100	50	ug/l	1	2111610	11/16/12	11/19/12	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		118 %	65-135		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2111612	11/16/12	11/17/12	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	2.3	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	9.2	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	

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Wendy Hsiao, Project Manager

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Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/28/12 13:25

LL_705_111412_01
T122120-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,3-Dichloropropane	ND	1.0	ug/l	1	2111612	11/16/12	11/17/12	EPA 8260B
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	1.6	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	22	1.0	"	"	"	"	"	"
n-Propylbenzene	1.0	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	3.2	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	9.7	1.0	"	"	"	"	"	"
Vinyl chloride	3.6	1.0	"	"	"	"	"	"
Benzene	5.1	0.50	"	"	"	"	"	"
Toluene	0.56	0.50	"	"	"	"	"	"
Ethylbenzene	7.9	0.50	"	"	"	"	"	"
m,p-Xylene	9.9	1.0	"	"	"	"	"	"
o-Xylene	0.94	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"
Tert-butyl alcohol	47	10	"	"	"	"	"	"
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"

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Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/28/12 13:25

LL_705_111412_01
T122120-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Ethyl tert-butyl ether	ND	2.0	ug/l	1	2111612	11/16/12	11/17/12	EPA 8260B
Methyl tert-butyl ether	2.1	1.0	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene	95.9 %	83.5-119	"	"	"	"	"	"
Surrogate: Dibromofluoromethane	84.0 %	81-136	"	"	"	"	"	"
Surrogate: Toluene-d8	102 %	88.8-117	"	"	"	"	"	"

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11/28/12 13:25

LL_705_111412_02
T122120-05 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	100	50	ug/l	1	2111610	11/16/12	11/19/12	EPA 8015C
Surrogate: 4-Bromofluorobenzene	118 %	65-135	"	"	"	"	"	"

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2111612	11/16/12	11/17/12	EPA 8260B
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	0.56	0.50	"	"	"	"	"	"
1,1-Dichloroethene	2.2	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	11	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao

Wendy Hsiao, Project Manager



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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/28/12 13:25

LL_705_111412_02
T122120-05 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,3-Dichloropropane	ND	1.0	ug/l	1	2111612	11/16/12	11/17/12	EPA 8260B
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	1.0	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"
n-Propylbenzene	ND	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	1.1	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
Benzene	ND	0.50	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"
Tert-butyl alcohol	24	10	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/28/12 13:25

LL_705_111412_02
T122120-05 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Di-isopropyl ether	ND	2.0	ug/l	1	2111612	11/16/12	11/17/12	EPA 8260B	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	1.7	1.0	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	83.5-119		"	"	"	"	
Surrogate: Dibromofluoromethane		78.6 %	81-136		"	"	"	"	S-GC
Surrogate: Toluene-d8		102 %	88.8-117		"	"	"	"	

SunStar Laboratories, Inc.

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Murex	Project: Cenco	Reported:
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	11/28/12 13:25
Irvine CA, 92861	Project Manager: Jeremy Squire	

LL_706_111512_01
T122120-06 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	ND	50	ug/l	1	2111610	11/16/12	11/19/12	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		120 %	65-135		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2111612	11/16/12	11/17/12	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	

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Wendy Hsiao

Wendy Hsiao, Project Manager

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/28/12 13:25

LL_706_111512_01
T122120-06 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,2-Dichloropropane	ND	1.0	ug/l	1	2111612	11/16/12	11/17/12	EPA 8260B
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	ND	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	6.1	1.0	"	"	"	"	"	"
n-Propylbenzene	ND	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	1.2	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	3.0	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
Benzene	2.6	0.50	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"
Ethylbenzene	3.0	0.50	"	"	"	"	"	"
m,p-Xylene	4.1	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/28/12 13:25

LL_706_111512_01
T122120-06 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Tert-butyl alcohol	110	10	ug/l	1	2111612	11/16/12	11/17/12	EPA 8260B
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"
Methyl tert-butyl ether	6.6	1.0	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene	96.9 %	83.5-119	"	"	"	"	"	"
Surrogate: Dibromofluoromethane	90.8 %	81-136	"	"	"	"	"	"
Surrogate: Toluene-d8	104 %	88.8-117	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 11/28/12 13:25
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LL_706_111512_02
T122120-07 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	ND	50	ug/l	1	2111610	11/16/12	11/19/12	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		119 %	65-135		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2111612	11/16/12	11/17/12	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	

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Wendy Hsiao

Wendy Hsiao, Project Manager

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/28/12 13:25

LL_706_111512_02
T122120-07 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,2-Dichloropropane	ND	1.0	ug/l	1	2111612	11/16/12	11/17/12	EPA 8260B
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	ND	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	2.9	1.0	"	"	"	"	"	"
n-Propylbenzene	ND	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
Benzene	3.1	0.50	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"
Ethylbenzene	0.86	0.50	"	"	"	"	"	"
m,p-Xylene	1.1	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"

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Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/28/12 13:25

LL_706_111512_02
T122120-07 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Tert-butyl alcohol	110	10	ug/l	1	2111612	11/16/12	11/17/12	EPA 8260B
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"
Methyl tert-butyl ether	5.6	1.0	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene	92.6 %	83.5-119	"	"	"	"	"	"
Surrogate: Dibromofluoromethane	91.9 %	81-136	"	"	"	"	"	"
Surrogate: Toluene-d8	103 %	88.8-117	"	"	"	"	"	"

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Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 11/28/12 13:25
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LL_707_111512_01
T122120-08 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	310	50	ug/l	1	2111610	11/16/12	11/19/12	EPA 8015C
Surrogate: 4-Bromofluorobenzene	134 %	65-135	"	"	"	"	"	"

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2111612	11/16/12	11/17/12	EPA 8260B
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"
sec-Butylbenzene	1.0	1.0	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"

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Wendy Hsiao

Wendy Hsiao, Project Manager



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Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/28/12 13:25

LL_707_111512_01
T122120-08 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,3-Dichloropropane	ND	1.0	ug/l	1	2111612	11/16/12	11/17/12	EPA 8260B	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	2.2	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	21	1.0	"	"	"	"	"	"	
n-Propylbenzene	5.1	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	2.7	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	11	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	180	0.50	"	"	"	"	"	"	E
Toluene	11	0.50	"	"	"	"	"	"	
Ethylbenzene	6.6	0.50	"	"	"	"	"	"	
m,p-Xylene	29	1.0	"	"	"	"	"	"	
o-Xylene	9.5	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	

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Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/28/12 13:25

LL_707_111512_01
T122120-08 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Ethyl tert-butyl ether	ND	2.0	ug/l	1	2111612	11/16/12	11/17/12	EPA 8260B
Methyl tert-butyl ether	2.3	1.0	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene	96.4 %	83.5-119	"	"	"	"	"	"
Surrogate: Dibromofluoromethane	91.6 %	81-136	"	"	"	"	"	"
Surrogate: Toluene-d8	101 %	88.8-117	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/28/12 13:25

LL_TB_111512
T122120-09 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2111612	11/16/12	11/17/12	EPA 8260B
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"

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Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/28/12 13:25

LL_TB_111512
T122120-09 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

cis-1,3-Dichloropropene	ND	0.50	ug/l	1	2111612	11/16/12	11/17/12	EPA 8260B
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	ND	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"
n-Propylbenzene	ND	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
Benzene	ND	0.50	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"
Tert-butyl alcohol	ND	10	"	"	"	"	"	"
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"

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Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/28/12 13:25

LL_TB_111512
T122120-09 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	ug/l	1	2111612	11/16/12	11/17/12	EPA 8260B
Surrogate: 4-Bromofluorobenzene	90.8 %	83.5-119	"	"	"	"	"	"
Surrogate: Dibromofluoromethane	89.9 %	81-136	"	"	"	"	"	"
Surrogate: Toluene-d8	103 %	88.8-117	"	"	"	"	"	"

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Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 11/28/12 13:25
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Purgeable Petroleum Hydrocarbons by EPA 8015C - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2111610 - EPA 5030 GC

Blank (2111610-BLK1)				Prepared: 11/16/12 Analyzed: 11/19/12						
C6-C12 (GRO)	ND	50	ug/l							
Surrogate 4-Bromofluorobenzene	115		"	100		115	65-135			
LCS (2111610-BS1)				Prepared: 11/16/12 Analyzed: 11/19/12						
C6-C12 (GRO)	4520	50	ug/l	5500		82.1	75-125			
Surrogate 4-Bromofluorobenzene	134		"	100		134	65-135			
Matrix Spike (2111610-MS1)				Source: T122120-01		Prepared: 11/16/12 Analyzed: 11/19/12				
C6-C12 (GRO)	4740	50	ug/l	5500	280	81.1	65-135			
Surrogate 4-Bromofluorobenzene	165		"	100		165	65-135			S-04
Matrix Spike Dup (2111610-MSD1)				Source: T122120-01		Prepared: 11/16/12 Analyzed: 11/19/12				
C6-C12 (GRO)	4880	50	ug/l	5500	280	83.6	65-135	2.92	20	
Surrogate 4-Bromofluorobenzene	144		"	100		144	65-135			S-04

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15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	Reported:
Irvine CA, 92861	Project Manager: Jeremy Squire	11/28/12 13:25

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2111612 - EPA 5030 GCMS

Blank (2111612-BLK1)

Prepared: 11/16/12 Analyzed: 11/17/12

Bromobenzene	ND	1.0	ug/l
Bromochloromethane	ND	1.0	"
Bromodichloromethane	ND	1.0	"
Bromoform	ND	1.0	"
Bromomethane	ND	1.0	"
n-Butylbenzene	ND	1.0	"
sec-Butylbenzene	ND	1.0	"
tert-Butylbenzene	ND	1.0	"
Carbon tetrachloride	ND	0.50	"
Chlorobenzene	ND	1.0	"
Chloroethane	ND	1.0	"
Chloroform	ND	1.0	"
Chloromethane	ND	1.0	"
2-Chlorotoluene	ND	1.0	"
4-Chlorotoluene	ND	1.0	"
Dibromochloromethane	ND	1.0	"
1,2-Dibromo-3-chloropropane	ND	1.0	"
1,2-Dibromoethane (EDB)	ND	1.0	"
Dibromomethane	ND	1.0	"
1,2-Dichlorobenzene	ND	1.0	"
1,3-Dichlorobenzene	ND	1.0	"
1,4-Dichlorobenzene	ND	1.0	"
Dichlorodifluoromethane	ND	0.50	"
1,1-Dichloroethane	ND	1.0	"
1,2-Dichloroethane	ND	0.50	"
1,1-Dichloroethene	ND	1.0	"
cis-1,2-Dichloroethene	ND	1.0	"
trans-1,2-Dichloroethene	ND	1.0	"
1,2-Dichloropropane	ND	1.0	"
1,3-Dichloropropane	ND	1.0	"
2,2-Dichloropropane	ND	1.0	"
1,1-Dichloropropene	ND	1.0	"
cis-1,3-Dichloropropene	ND	0.50	"
trans-1,3-Dichloropropene	ND	0.50	"
Hexachlorobutadiene	ND	1.0	"
Isopropylbenzene	ND	1.0	"

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Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/28/12 13:25

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2111612 - EPA 5030 GCMS

Blank (2111612-BLK1)

Prepared: 11/16/12 Analyzed: 11/17/12

p-Isopropyltoluene	ND	1.0	ug/l							
Methylene chloride	ND	1.0	"							
Naphthalene	ND	1.0	"							
n-Propylbenzene	ND	1.0	"							
Styrene	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	1.0	"							
1,1,1,2-Tetrachloroethane	ND	1.0	"							
Tetrachloroethene	ND	1.0	"							
1,2,3-Trichlorobenzene	ND	1.0	"							
1,2,4-Trichlorobenzene	ND	1.0	"							
1,1,2-Trichloroethane	ND	1.0	"							
1,1,1-Trichloroethane	ND	1.0	"							
Trichloroethene	ND	1.0	"							
Trichlorofluoromethane	ND	1.0	"							
1,2,3-Trichloropropane	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
Vinyl chloride	ND	1.0	"							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
m,p-Xylene	ND	1.0	"							
o-Xylene	ND	0.50	"							
Tert-amyl methyl ether	ND	2.0	"							
Tert-butyl alcohol	ND	10	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
Methyl tert-butyl ether	ND	1.0	"							
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"							
Surrogate 4-Bromofluorobenzene	7.22		"	8.00		90.2	83.5-119			
Surrogate Dibromofluoromethane	7.44		"	8.00		93.0	81-136			
Surrogate Toluene-d8	8.52		"	8.00		106	88.8-117			

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Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/28/12 13:25

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2111612 - EPA 5030 GCMS

LCS (2111612-BS1)

Prepared: 11/16/12 Analyzed: 11/17/12

Chlorobenzene	22.5	1.0	ug/l	20.0		112	75-125			
1,1-Dichloroethene	22.7	1.0	"	20.0		113	75-125			
Trichloroethene	18.9	1.0	"	20.0		94.4	75-125			
Benzene	22.5	0.50	"	20.0		113	75-125			
Toluene	18.3	0.50	"	20.0		91.4	75-125			
Surrogate 4-Bromofluorobenzene	7.48		"	8.00		93.5	83.5-119			
Surrogate Dibromofluoromethane	7.91		"	8.00		98.9	81-136			
Surrogate Toluene-d8	8.12		"	8.00		102	88.8-117			

Matrix Spike (2111612-MS1)

Source: T122120-01

Prepared: 11/16/12 Analyzed: 11/17/12

Chlorobenzene	21.3	1.0	ug/l	20.0	ND	107	75-125			
1,1-Dichloroethene	22.3	1.0	"	20.0	2.52	99.0	75-125			
Trichloroethene	17.1	1.0	"	20.0	ND	85.6	75-125			
Benzene	23.8	0.50	"	20.0	4.07	98.9	75-125			
Toluene	17.0	0.50	"	20.0	ND	85.0	75-125			
Surrogate 4-Bromofluorobenzene	7.92		"	8.00		99.0	83.5-119			
Surrogate Dibromofluoromethane	7.67		"	8.00		95.9	81-136			
Surrogate Toluene-d8	6.79		"	8.00		84.9	88.8-117			S-GC

Matrix Spike Dup (2111612-MSD1)

Source: T122120-01

Prepared: 11/16/12 Analyzed: 11/17/12

Chlorobenzene	20.8	1.0	ug/l	20.0	ND	104	75-125	2.47	20	
1,1-Dichloroethene	22.8	1.0	"	20.0	2.52	101	75-125	1.91	20	
Trichloroethene	16.9	1.0	"	20.0	ND	84.6	75-125	1.18	20	
Benzene	22.4	0.50	"	20.0	4.07	91.5	75-125	6.40	20	
Toluene	16.8	0.50	"	20.0	ND	84.0	75-125	1.24	20	
Surrogate 4-Bromofluorobenzene	8.13		"	8.00		102	83.5-119			
Surrogate Dibromofluoromethane	6.86		"	8.00		85.8	81-136			
Surrogate Toluene-d8	7.13		"	8.00		89.1	88.8-117			

SunStar Laboratories, Inc.

Wendy Hsiao, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 11/28/12 13:25
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Notes and Definitions

S-GC Surrogate recovery outside of established control limits. The data was accepted based on valid recovery of the remaining surrogate(s).

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

E-1 The final dilution was lower than the original data or previous dilutions. The highest recovered concentration was reported even though it was above calibration range.

E The concentration indicated for this analyte is above the calibration range of the instrument. This value should be considered as an estimate as the actual value may be higher.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

SunStar Laboratories, Inc.



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Wendy Hsiao, Project Manager

Chain of Custody Record

Date: 11.15.2012

Page: 1 OF 1

Project Name: CENCO

Collector: Frane Sosic

Client Project #: 1003-001-300

Batch #: T122120

EDF #:

Sample disposal Instructions: Disposal @ \$2.00 each _____ Return to client _____ Pickup _____

SAMPLE RECEIVING REVIEW SHEET

BATCH # 7122120

Client Name: MUREX

Project: CENCO

Received by: DAN

Date/Time Received: 11.15.12 / 17:07

Delivered by : ☐ Client ☒ SunStar Courier ☐ GSO ☐ FedEx ☐ Other _____

Total number of coolers received _____ Temp criteria = 6°C > 0°C (no frozen containers)

Temperature: cooler #1 _____ °C +/- the CF (- 0.2°C) = _____ °C corrected temperature

cooler #2 _____ °C +/- the CF (- 0.2°C) = _____ °C corrected temperature

cooler #3 _____ °C +/- the CF (- 0.2°C) = _____ °C corrected temperature

Samples outside temp. but received on ice, w/in 6 hours of final sampling. ☒ Yes ☐ No* ☐ N/A

Custody Seals Intact on Cooler/Sample ☐ Yes ☐ No* ☒ N/A

Sample Containers Intact ☒ Yes ☐ No*

Sample labels match COC ID's ☒ Yes ☐ No*

Total number of containers received match COC ☒ Yes ☐ No*

Proper containers received for analyses requested on COC ☒ Yes ☐ No*

Proper preservative indicated on COC/containers for analyses requested ☒ Yes ☐ No* ☐ N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times. ☒ Yes ☐ No*

* Complete Non-Conformance Receiving Sheet if checked

Cooler/Sample Review - Initials and date SC 11.16.12

Comments:



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27 November 2012

Jeremy Squire
Murex
15375 Barranca Parkway, Suite K-101
Irvine, CA 92861
RE: Cenco

Enclosed are the results of analyses for samples received by the laboratory on 11/16/12 15:32. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Wendy Hsiao
Project Manager



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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/27/12 16:55

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LL_708_111612_01	T122135-01	Water	11/16/12 09:30	11/16/12 15:32
LL_709_111612_01	T122135-02	Water	11/16/12 11:48	11/16/12 15:32
LL_710_111612_01	T122135-03	Water	11/16/12 13:41	11/16/12 15:32
LL_711_111612_01	T122135-04	Water	11/16/12 15:27	11/16/12 15:32
LL_TB_111612	T122135-05	Water	11/16/12 00:00	11/16/12 15:32

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Wendy Hsiao, Project Manager



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Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/27/12 16:55

LL_708_111612_01

T122135-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	1000	50	ug/l	1	2111908	11/19/12	11/20/12	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		195 %	65-135		"	"	"	"	S-04

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2111907	11/19/12	11/21/12	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	3.6	1.0	"	"	"	"	"	"	
sec-Butylbenzene	1.5	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Wendy Hsiao

Wendy Hsiao, Project Manager



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Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/27/12 16:55

LL_708_111612_01
T122135-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,2-Dichloropropane	ND	1.0	ug/l	1	2111907	11/19/12	11/21/12	EPA 8260B
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	2.8	1.0	"	"	"	"	"	"
p-Isopropyltoluene	1.2	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	4.0	1.0	"	"	"	"	"	"
n-Propylbenzene	7.6	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	13	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	37	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
Benzene	73	0.50	"	"	"	"	"	"
Toluene	0.57	0.50	"	"	"	"	"	"
Ethylbenzene	5.4	0.50	"	"	"	"	"	"
m,p-Xylene	9.5	1.0	"	"	"	"	"	"
o-Xylene	0.58	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"
Tert-butyl alcohol	55	10	"	"	"	"	"	"

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Wendy Hsiao

Wendy Hsiao, Project Manager



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Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/27/12 16:55

LL_708_111612_01
T122135-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Di-isopropyl ether	ND	2.0	ug/l	1	2111907	11/19/12	11/21/12	EPA 8260B
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"
Methyl tert-butyl ether	3.8	1.0	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene		103 %	83.5-119		"	"	"	"
Surrogate: Dibromofluoromethane		91.1 %	81-136		"	"	"	"
Surrogate: Toluene-d8		108 %	88.8-117		"	"	"	"

SunStar Laboratories, Inc.

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Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/27/12 16:55

LL_709_111612_01
T122135-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	650	50	ug/l	1	2111908	11/19/12	11/20/12	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		131 %	65-135		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2111907	11/19/12	11/21/12	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	1.1	1.0	"	"	"	"	"	"	
sec-Butylbenzene	3.5	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	

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Wendy Hsiao

Wendy Hsiao, Project Manager



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15375 Barranca Parkway, Suite K-101
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Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/27/12 16:55

LL_709_111612_01
T122135-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,3-Dichloropropane	ND	1.0	ug/l	1	2111907	11/19/12	11/21/12	EPA 8260B
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	16	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"
n-Propylbenzene	8.2	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
Benzene	1.7	0.50	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"
Tert-butyl alcohol	100	10	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao

Wendy Hsiao, Project Manager



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Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/27/12 16:55

LL_709_111612_01
T122135-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Di-isopropyl ether	ND	2.0	ug/l	1	2111907	11/19/12	11/21/12	EPA 8260B
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"
Methyl tert-butyl ether	2.4	1.0	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene		102 %	83.5-119		"	"	"	"
Surrogate: Dibromofluoromethane		92.1 %	81-136		"	"	"	"
Surrogate: Toluene-d8		110 %	88.8-117		"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager



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Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 11/27/12 16:55
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LL_710_111612_01
T122135-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	95	50	ug/l	1	2111908	11/19/12	11/20/12	EPA 8015C	
Surrogate: 4-Bromofluorobenzene	115 %	65-135	"	"	"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2111907	11/19/12	11/21/12	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	4.8	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	86	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	19	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	2.0	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	

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Wendy Hsiao

Wendy Hsiao, Project Manager



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Murex
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Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/27/12 16:55

LL_710_111612_01
T122135-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,3-Dichloropropane	ND	1.0	ug/l	1	2111907	11/19/12	11/21/12	EPA 8260B
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	ND	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"
n-Propylbenzene	ND	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	81	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	130	1.0	"	"	"	"	"	"
Trichlorofluoromethane	1.4	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
Vinyl chloride	8.2	1.0	"	"	"	"	"	"
Benzene	ND	0.50	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"
Tert-butyl alcohol	ND	10	"	"	"	"	"	"

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Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/27/12 16:55

LL_710_111612_01
T122135-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Di-isopropyl ether	ND	2.0	ug/l	1	2111907	11/19/12	11/21/12	EPA 8260B
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	16	5.0	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene		88.1 %	83.5-119		"	"	"	"
Surrogate: Dibromofluoromethane		92.9 %	81-136		"	"	"	"
Surrogate: Toluene-d8		106 %	88.8-117		"	"	"	"

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Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 11/27/12 16:55
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LL_711_111612_01
T122135-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	35000	50	ug/l	1	2111908	11/19/12	11/20/12	EPA 8015C
Surrogate: 4-Bromofluorobenzene		128 %	65-135		"	"	"	"

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2111907	11/19/12	11/21/12	EPA 8260B
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	38	1.0	"	"	"	"	"	"
sec-Butylbenzene	15	1.0	"	"	"	"	"	"
tert-Butylbenzene	1.3	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	1.2	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	19	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	5.9	1.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"

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Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/27/12 16:55

LL_711_111612_01
T122135-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,3-Dichloropropane	ND	1.0	ug/l	1	2111907	11/19/12	11/21/12	EPA 8260B
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	84	1.0	"	"	"	"	"	"
p-Isopropyltoluene	4.1	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	350	100	"	100	"	"	"	"
n-Propylbenzene	160	1.0	"	1	"	"	"	"
Styrene	2.2	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	210	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	430	1.0	"	"	"	"	"	"
Vinyl chloride	120	1.0	"	"	"	"	"	"
Benzene	6200	50	"	100	"	"	"	"
Toluene	7000	50	"	"	"	"	"	"
Ethylbenzene	1400	50	"	"	"	"	"	"
m,p-Xylene	4500	100	"	"	"	"	"	"
o-Xylene	2300	50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	1	"	"	"	"
Tert-butyl alcohol	41	10	"	"	"	"	"	"
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"

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Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/27/12 16:55

LL_711_111612_01
T122135-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Ethyl tert-butyl ether	ND	2.0	ug/l	1	2111907	11/19/12	11/21/12	EPA 8260B	
Methyl tert-butyl ether	4.4	1.0	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	83.5-119		"	"	"	"	
Surrogate: Dibromofluoromethane		76.1 %	81-136		"	"	"	"	S-GC
Surrogate: Toluene-d8		94.0 %	88.8-117		"	"	"	"	

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Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/27/12 16:55

LL_TB_111612
T122135-05 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2111907	11/19/12	11/21/12	EPA 8260B
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"

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Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/27/12 16:55

LL_TB_111612
T122135-05 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

cis-1,3-Dichloropropene	ND	0.50	ug/l	1	2111907	11/19/12	11/21/12	EPA 8260B
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	ND	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	ND	1.0	"	"	"	"	"	"
n-Propylbenzene	ND	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
Benzene	ND	0.50	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"
Tert-butyl alcohol	ND	10	"	"	"	"	"	"
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"

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Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/27/12 16:55

LL_TB_111612
T122135-05 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	ug/l	1	2111907	11/19/12	11/21/12	EPA 8260B	
Surrogate: 4-Bromofluorobenzene	96.2 %	83.5-119			"	"	"	"	
Surrogate: Dibromofluoromethane	78.8 %	81-136			"	"	"	"	S-GC
Surrogate: Toluene-d8	100 %	88.8-117			"	"	"	"	

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Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 11/27/12 16:55
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Purgeable Petroleum Hydrocarbons by EPA 8015C - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2111908 - EPA 5030 GC										
Blank (2111908-BLK1)				Prepared: 11/19/12 Analyzed: 11/20/12						
C6-C12 (GRO)	ND	50	ug/l							
Surrogate 4-Bromofluorobenzene	110		"	100		110	65-135			
LCS (2111908-BS1)				Prepared: 11/19/12 Analyzed: 11/20/12						
C6-C12 (GRO)	4390	50	ug/l	5500		79.8	75-125			
Surrogate 4-Bromofluorobenzene	135		"	100		135	65-135			
Matrix Spike (2111908-MS1)				Source: T122135-01		Prepared: 11/19/12 Analyzed: 11/20/12				
C6-C12 (GRO)	5140	50	ug/l	5500	999	75.4	65-135			
Surrogate 4-Bromofluorobenzene	133		"	100		133	65-135			
Matrix Spike Dup (2111908-MSD1)				Source: T122135-01		Prepared: 11/19/12 Analyzed: 11/20/12				
C6-C12 (GRO)	5050	50	ug/l	5500	999	73.6	65-135	1.91	20	
Surrogate 4-Bromofluorobenzene	133		"	100		133	65-135			

SunStar Laboratories, Inc.

Wendy Hsiao, Project Manager

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/27/12 16:55

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2111907 - EPA 5030 GCMS

Blank (2111907-BLK1)

Prepared: 11/19/12 Analyzed: 11/20/12

Bromobenzene	ND	1.0	ug/l
Bromochloromethane	ND	1.0	"
Bromodichloromethane	ND	1.0	"
Bromoform	ND	1.0	"
Bromomethane	ND	1.0	"
n-Butylbenzene	ND	1.0	"
sec-Butylbenzene	ND	1.0	"
tert-Butylbenzene	ND	1.0	"
Carbon tetrachloride	ND	0.50	"
Chlorobenzene	ND	1.0	"
Chloroethane	ND	1.0	"
Chloroform	ND	1.0	"
Chloromethane	ND	1.0	"
2-Chlorotoluene	ND	1.0	"
4-Chlorotoluene	ND	1.0	"
Dibromochloromethane	ND	1.0	"
1,2-Dibromo-3-chloropropane	ND	1.0	"
1,2-Dibromoethane (EDB)	ND	1.0	"
Dibromomethane	ND	1.0	"
1,2-Dichlorobenzene	ND	1.0	"
1,3-Dichlorobenzene	ND	1.0	"
1,4-Dichlorobenzene	ND	1.0	"
Dichlorodifluoromethane	ND	0.50	"
1,1-Dichloroethane	ND	1.0	"
1,2-Dichloroethane	ND	0.50	"
1,1-Dichloroethene	ND	1.0	"
cis-1,2-Dichloroethene	ND	1.0	"
trans-1,2-Dichloroethene	ND	1.0	"
1,2-Dichloropropane	ND	1.0	"
1,3-Dichloropropane	ND	1.0	"
2,2-Dichloropropane	ND	1.0	"
1,1-Dichloropropene	ND	1.0	"
cis-1,3-Dichloropropene	ND	0.50	"
trans-1,3-Dichloropropene	ND	0.50	"
Hexachlorobutadiene	ND	1.0	"
Isopropylbenzene	ND	1.0	"

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Wendy Hsiao, Project Manager



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Murex	Project: Cenco	Reported:
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	11/27/12 16:55
Irvine CA, 92861	Project Manager: Jeremy Squire	

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2111907 - EPA 5030 GCMS

Blank (2111907-BLK1)

Prepared: 11/19/12 Analyzed: 11/20/12

p-Isopropyltoluene	ND	1.0	ug/l							
Methylene chloride	ND	1.0	"							
Naphthalene	ND	1.0	"							
n-Propylbenzene	ND	1.0	"							
Styrene	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	1.0	"							
1,1,1,2-Tetrachloroethane	ND	1.0	"							
Tetrachloroethene	ND	1.0	"							
1,2,3-Trichlorobenzene	ND	1.0	"							
1,2,4-Trichlorobenzene	ND	1.0	"							
1,1,2-Trichloroethane	ND	1.0	"							
1,1,1-Trichloroethane	ND	1.0	"							
Trichloroethene	ND	1.0	"							
Trichlorofluoromethane	ND	1.0	"							
1,2,3-Trichloropropane	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
Vinyl chloride	ND	1.0	"							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
m,p-Xylene	ND	1.0	"							
o-Xylene	ND	0.50	"							
Tert-amyl methyl ether	ND	2.0	"							
Tert-butyl alcohol	ND	10	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
Methyl tert-butyl ether	ND	1.0	"							
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"							
Surrogate 4-Bromofluorobenzene	6.89		"	8.00		86.1	83.5-119			
Surrogate Dibromofluoromethane	7.16		"	8.00		89.5	81-136			
Surrogate Toluene-d8	8.43		"	8.00		105	88.8-117			

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Wendy Hsiao

Wendy Hsiao, Project Manager



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Murex	Project: Cenco	Reported:
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	11/27/12 16:55
Irvine CA, 92861	Project Manager: Jeremy Squire	

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2111907 - EPA 5030 GCMS

LCS (2111907-BS1)

Prepared: 11/19/12 Analyzed: 11/21/12

Chlorobenzene	21.0	1.0	ug/l	20.0		105	75-125			
1,1-Dichloroethene	21.2	1.0	"	20.0		106	75-125			
Trichloroethene	18.5	1.0	"	20.0		92.4	75-125			
Benzene	22.2	0.50	"	20.0		111	75-125			
Toluene	20.0	0.50	"	20.0		99.8	75-125			
Surrogate 4-Bromofluorobenzene	6.74		"	8.00		84.2	83.5-119			
Surrogate Dibromofluoromethane	7.57		"	8.00		94.6	81-136			
Surrogate Toluene-d8	6.78		"	8.00		84.8	88.8-117			S-GC

Matrix Spike (2111907-MS1)

Source: T122116-01

Prepared: 11/19/12 Analyzed: 11/21/12

Chlorobenzene	19.8	1.0	ug/l	20.0	ND	99.1	75-125			
1,1-Dichloroethene	21.3	1.0	"	20.0	ND	107	75-125			
Trichloroethene	17.8	1.0	"	20.0	ND	89.0	75-125			
Benzene	23.0	0.50	"	20.0	ND	115	75-125			
Toluene	18.5	0.50	"	20.0	ND	92.5	75-125			
Surrogate 4-Bromofluorobenzene	7.59		"	8.00		94.9	83.5-119			
Surrogate Dibromofluoromethane	8.26		"	8.00		103	81-136			
Surrogate Toluene-d8	7.66		"	8.00		95.8	88.8-117			

Matrix Spike Dup (2111907-MSD1)

Source: T122116-01

Prepared: 11/19/12 Analyzed: 11/21/12

Chlorobenzene	21.6	1.0	ug/l	20.0	ND	108	75-125	8.36	20	
1,1-Dichloroethene	21.9	1.0	"	20.0	ND	110	75-125	2.77	20	
Trichloroethene	17.3	1.0	"	20.0	ND	86.4	75-125	2.91	20	
Benzene	21.4	0.50	"	20.0	ND	107	75-125	6.89	20	
Toluene	17.9	0.50	"	20.0	ND	89.4	75-125	3.35	20	
Surrogate 4-Bromofluorobenzene	7.74		"	8.00		96.8	83.5-119			
Surrogate Dibromofluoromethane	8.09		"	8.00		101	81-136			
Surrogate Toluene-d8	7.16		"	8.00		89.5	88.8-117			

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Wendy Hsiao

Wendy Hsiao, Project Manager



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Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 11/27/12 16:55
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Notes and Definitions

S-GC Surrogate recovery outside of established control limits. The data was accepted based on valid recovery of the remaining surrogate(s).

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager

Chain of Custody Record

Date: 11-16-2012 Page: 1 Of 1

Project Name: CENCO

Collector: FS Client Project #: 1003-001-300

Batch #: T122135 EDF #: _____

Sample disposal Instructions: Disposal @ \$2.00 each _____ Return to client _____ Pickup _____

COC 101466

SAMPLE RECEIVING REVIEW SHEET

BATCH # T122135

Client Name: Murex

Project: Cenco

Received by: Dan Marteski

Date/Time Received: 11/16/12

Delivered by : ☐ Client ☒ SunStar Courier ☐ GSO ☐ FedEx ☐ Other _____

Total number of coolers received 1 Temp criteria = 6°C > 0°C (no frozen containers)

Temperature: cooler #1 4.4 °C +/- the CF (- 0.2°C) = 4.2 °C corrected temperature

cooler #2 _____ °C +/- the CF (- 0.2°C) = _____ °C corrected temperature

cooler #3 _____ °C +/- the CF (- 0.2°C) = _____ °C corrected temperature

Samples outside temp. but received on ice, w/in 6 hours of final sampling. ☒ Yes ☐ No* ☐ N/A

Custody Seals Intact on Cooler/Sample ☐ Yes ☐ No* ☒ N/A

Sample Containers Intact ☒ Yes ☐ No*

Sample labels match COC ID's ☒ Yes ☐ No*


Total number of containers received match COC ☒ Yes ☐ No*

Proper containers received for analyses requested on COC ☒ Yes ☐ No*

Proper preservative indicated on COC/containers for analyses requested ☒ Yes ☐ No* ☐ N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times. ☒ Yes ☐ No*

* Complete Non-Conformance Receiving Sheet if checked

Cooler/Sample Review - Initials and date  11/16/12

Comments:



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29 November 2012

Jeremy Squire
Murex
15375 Barranca Parkway, Suite K-101
Irvine, CA 92861
RE: Cenco

Enclosed are the results of analyses for samples received by the laboratory on 11/20/12 16:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Wendy Hsiao
Project Manager



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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/29/12 14:38

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LL_712_111912_01	T122165-01	Water	11/19/12 08:37	11/20/12 16:45
LL_713_111912_01	T122165-02	Water	11/19/12 11:00	11/20/12 16:45
LL_714_111912_01	T122165-03	Water	11/19/12 12:47	11/20/12 16:45
LL_715_111912_01	T122165-04	Water	11/19/12 15:26	11/20/12 16:45
LL_W11_111912_01	T122165-05	Water	11/19/12 17:00	11/20/12 16:45
LL_TB_111912	T122165-06	Water	11/19/12 17:00	11/20/12 16:45

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager



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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/29/12 14:38

LL_712_111912_01

T122165-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	670	50	ug/l	1	2112131	11/21/12	11/26/12	EPA 8015C
Surrogate: 4-Bromofluorobenzene		134 %	65-135		"	"	"	"

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2112130	11/21/12	11/22/12	EPA 8260B
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	1.5	1.0	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"

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Wendy Hsiao

Wendy Hsiao, Project Manager

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/29/12 14:38

LL_712_111912_01
T122165-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,2-Dichloropropane	ND	1.0	ug/l	1	2112130	11/21/12	11/22/12	EPA 8260B
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	4.2	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	11	1.0	"	"	"	"	"	"
n-Propylbenzene	4.0	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	4.9	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	17	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
Benzene	55	0.50	"	"	"	"	"	"
Toluene	5.8	0.50	"	"	"	"	"	"
Ethylbenzene	8.1	0.50	"	"	"	"	"	"
m,p-Xylene	37	1.0	"	"	"	"	"	"
o-Xylene	8.6	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"
Tert-butyl alcohol	ND	10	"	"	"	"	"	"

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Wendy Hsiao, Project Manager



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Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/29/12 14:38

LL_712_111912_01
T122165-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Di-isopropyl ether	ND	2.0	ug/l	1	2112130	11/21/12	11/22/12	EPA 8260B
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"
Methyl tert-butyl ether	5.9	1.0	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene		104 %	83.5-119		"	"	"	"
Surrogate: Dibromofluoromethane		81.5 %	81-136		"	"	"	"
Surrogate: Toluene-d8		106 %	88.8-117		"	"	"	"

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Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 11/29/12 14:38
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LL_713_111912_01
T122165-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	750	50	ug/l	1	2112131	11/21/12	11/26/12	EPA 8015C	
Surrogate: 4-Bromofluorobenzene	116 %	65-135	"	"	"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2112130	11/21/12	11/22/12	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	

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Wendy Hsiao

Wendy Hsiao, Project Manager

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/29/12 14:38

LL_713_111912_01
T122165-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,2-Dichloropropane	ND	1.0	ug/l	1	2112130	11/21/12	11/22/12	EPA 8260B
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	7.0	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	13	1.0	"	"	"	"	"	"
n-Propylbenzene	11	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
Benzene	350	12	"	25	"	"	"	"
Toluene	0.79	0.50	"	1	"	"	"	"
Ethylbenzene	1.5	0.50	"	"	"	"	"	"
m,p-Xylene	2.1	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/29/12 14:38

LL_713_111912_01
T122165-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Tert-butyl alcohol	73	10	ug/l	1	2112130	11/21/12	11/22/12	EPA 8260B
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"
Methyl tert-butyl ether	190	1.0	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene		101 %	83.5-119		"	"	"	"
Surrogate: Dibromofluoromethane		81.8 %	81-136		"	"	"	"
Surrogate: Toluene-d8		101 %	88.8-117		"	"	"	"

SunStar Laboratories, Inc.

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Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/29/12 14:38

LL_714_111912_01
T122165-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	ND	50	ug/l	1	2112131	11/21/12	11/26/12	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		110 %	65-135		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2112130	11/21/12	11/22/12	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/29/12 14:38

LL_714_111912_01
T122165-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,2-Dichloropropane	ND	1.0	ug/l	1	2112130	11/21/12	11/22/12	EPA 8260B
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	ND	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	3.7	1.0	"	"	"	"	"	"
n-Propylbenzene	ND	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
Benzene	1.2	0.50	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/29/12 14:38

LL_714_111912_01
T122165-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Tert-butyl alcohol	20	10	ug/l	1	2112130	11/21/12	11/22/12	EPA 8260B
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"
Methyl tert-butyl ether	2.4	1.0	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene		97.8 %	83.5-119		"	"	"	"
Surrogate: Dibromofluoromethane		82.6 %	81-136		"	"	"	"
Surrogate: Toluene-d8		106 %	88.8-117		"	"	"	"

SunStar Laboratories, Inc.

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Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 11/29/12 14:38
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LL_715_111912_01
T122165-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	ND	50	ug/l	1	2112131	11/21/12	11/26/12	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		114 %	65-135		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2112130	11/21/12	11/22/12	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	

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Wendy Hsiao

Wendy Hsiao, Project Manager

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/29/12 14:38

LL_715_111912_01
T122165-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,2-Dichloropropane	ND	1.0	ug/l	1	2112130	11/21/12	11/22/12	EPA 8260B
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	ND	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	2.2	1.0	"	"	"	"	"	"
n-Propylbenzene	ND	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"
Vinyl chloride	ND	1.0	"	"	"	"	"	"
Benzene	0.52	0.50	"	"	"	"	"	"
Toluene	ND	0.50	"	"	"	"	"	"
Ethylbenzene	ND	0.50	"	"	"	"	"	"
m,p-Xylene	ND	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"

SunStar Laboratories, Inc.

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Wendy Hsiao, Project Manager

Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/29/12 14:38

LL_715_111912_01
T122165-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Tert-butyl alcohol	ND	10	ug/l	1	2112130	11/21/12	11/22/12	EPA 8260B
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene		94.9 %	83.5-119		"	"	"	"
Surrogate: Dibromofluoromethane		86.1 %	81-136		"	"	"	"
Surrogate: Toluene-d8		105 %	88.8-117		"	"	"	"

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Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/29/12 14:38

LL_W11_111912_01
T122165-05 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Purgeable Petroleum Hydrocarbons by EPA 8015C

C6-C12 (GRO)	1400	50	ug/l	1	2112131	11/21/12	11/26/12	EPA 8015C	
Surrogate: 4-Bromofluorobenzene		133 %	65-135		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2112130	11/21/12	11/22/12	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	2.9	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	5.3	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	

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Murex
15375 Barranca Parkway, Suite K-101
Irvine CA, 92861

Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/29/12 14:38

LL_W11_111912_01
T122165-05 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,3-Dichloropropane	ND	1.0	ug/l	1	2112130	11/21/12	11/22/12	EPA 8260B
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"
Isopropylbenzene	ND	1.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"
Methylene chloride	ND	1.0	"	"	"	"	"	"
Naphthalene	3.0	1.0	"	"	"	"	"	"
n-Propylbenzene	ND	1.0	"	"	"	"	"	"
Styrene	ND	1.0	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"
Tetrachloroethene	ND	1.0	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"
Trichloroethene	ND	1.0	"	"	"	"	"	"
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"
1,3,5-Trimethylbenzene	60	1.0	"	"	"	"	"	"
1,2,4-Trimethylbenzene	3.1	1.0	"	"	"	"	"	"
Vinyl chloride	1.3	1.0	"	"	"	"	"	"
Benzene	24	0.50	"	"	"	"	"	"
Toluene	1.6	0.50	"	"	"	"	"	"
Ethylbenzene	0.82	0.50	"	"	"	"	"	"
m,p-Xylene	6.2	1.0	"	"	"	"	"	"
o-Xylene	ND	0.50	"	"	"	"	"	"
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"
Tert-butyl alcohol	ND	10	"	"	"	"	"	"

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Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/29/12 14:38

LL_W11_111912_01
T122165-05 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Di-isopropyl ether	ND	2.0	ug/l	1	2112130	11/21/12	11/22/12	EPA 8260B
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene		100 %	83.5-119		"	"	"	"
Surrogate: Dibromofluoromethane		81.9 %	81-136		"	"	"	"
Surrogate: Toluene-d8		108 %	88.8-117		"	"	"	"

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Reported:
11/29/12 14:38

LL_TB_111912
T122165-06 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	2112130	11/21/12	11/22/12	EPA 8260B
Bromochloromethane	ND	1.0	"	"	"	"	"	"
Bromodichloromethane	ND	1.0	"	"	"	"	"	"
Bromoform	ND	1.0	"	"	"	"	"	"
Bromomethane	ND	1.0	"	"	"	"	"	"
n-Butylbenzene	ND	1.0	"	"	"	"	"	"
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"
Chlorobenzene	ND	1.0	"	"	"	"	"	"
Chloroethane	ND	1.0	"	"	"	"	"	"
Chloroform	ND	1.0	"	"	"	"	"	"
Chloromethane	ND	1.0	"	"	"	"	"	"
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"
Dibromochloromethane	ND	1.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	1.0	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"
Dibromomethane	ND	1.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"

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Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/29/12 14:38

LL_TB_111912
T122165-06 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

cis-1,3-Dichloropropene	ND	0.50	ug/l	1	2112130	11/21/12	11/22/12	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	

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Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/29/12 14:38

LL_TB_111912
T122165-06 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	ug/l	1	2112130	11/21/12	11/22/12	EPA 8260B	
Surrogate: 4-Bromofluorobenzene	92.5 %	83.5-119			"	"	"	"	
Surrogate: Dibromofluoromethane	87.1 %	81-136			"	"	"	"	
Surrogate: Toluene-d8	103 %	88.8-117			"	"	"	"	

SunStar Laboratories, Inc.

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Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/29/12 14:38

Purgeable Petroleum Hydrocarbons by EPA 8015C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2112131 - EPA 5030 GC

Blank (2112131-BLK1)

Prepared: 11/21/12 Analyzed: 11/29/12

C6-C12 (GRO)	ND	50	ug/l							
Surrogate 4-Bromofluorobenzene	108		"	100		108	65-135			

LCS (2112131-BS1)

Prepared: 11/21/12 Analyzed: 11/26/12

C6-C12 (GRO)	4950	50	ug/l	5500		90.0	75-125			
Surrogate 4-Bromofluorobenzene	134		"	100		134	65-135			

Matrix Spike (2112131-MS1)

Source: T122165-01

Prepared: 11/21/12 Analyzed: 11/26/12

C6-C12 (GRO)	4530	50	ug/l	5500	671	70.2	65-135			
Surrogate 4-Bromofluorobenzene	134		"	100		134	65-135			

Matrix Spike Dup (2112131-MSD1)

Source: T122165-01

Prepared: 11/21/12 Analyzed: 11/26/12

C6-C12 (GRO)	4330	50	ug/l	5500	671	66.5	65-135	4.58	20	
Surrogate 4-Bromofluorobenzene	134		"	100		134	65-135			

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Project: Cenco
Project Number: 1003-001-300
Project Manager: Jeremy Squire

Reported:
11/29/12 14:38

Volatil Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2112130 - EPA 5030 GCMS

Blank (2112130-BLK1)

Prepared: 11/21/12 Analyzed: 11/22/12

Bromobenzene	ND	1.0	ug/l
Bromochloromethane	ND	1.0	"
Bromodichloromethane	ND	1.0	"
Bromoform	ND	1.0	"
Bromomethane	ND	1.0	"
n-Butylbenzene	ND	1.0	"
sec-Butylbenzene	ND	1.0	"
tert-Butylbenzene	ND	1.0	"
Carbon tetrachloride	ND	0.50	"
Chlorobenzene	ND	1.0	"
Chloroethane	ND	1.0	"
Chloroform	ND	1.0	"
Chloromethane	ND	1.0	"
2-Chlorotoluene	ND	1.0	"
4-Chlorotoluene	ND	1.0	"
Dibromochloromethane	ND	1.0	"
1,2-Dibromo-3-chloropropane	ND	1.0	"
1,2-Dibromoethane (EDB)	ND	1.0	"
Dibromomethane	ND	1.0	"
1,2-Dichlorobenzene	ND	1.0	"
1,3-Dichlorobenzene	ND	1.0	"
1,4-Dichlorobenzene	ND	1.0	"
Dichlorodifluoromethane	ND	0.50	"
1,1-Dichloroethane	ND	1.0	"
1,2-Dichloroethane	ND	0.50	"
1,1-Dichloroethene	ND	1.0	"
cis-1,2-Dichloroethene	ND	1.0	"
trans-1,2-Dichloroethene	ND	1.0	"
1,2-Dichloropropane	ND	1.0	"
1,3-Dichloropropane	ND	1.0	"
2,2-Dichloropropane	ND	1.0	"
1,1-Dichloropropene	ND	1.0	"
cis-1,3-Dichloropropene	ND	0.50	"
trans-1,3-Dichloropropene	ND	0.50	"
Hexachlorobutadiene	ND	1.0	"
Isopropylbenzene	ND	1.0	"

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Murex	Project: Cenco	
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	
Irvine CA, 92861	Project Manager: Jeremy Squire	Reported: 11/29/12 14:38

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2112130 - EPA 5030 GCMS

Blank (2112130-BLK1)

Prepared: 11/21/12 Analyzed: 11/22/12

p-Isopropyltoluene	ND	1.0	ug/l							
Methylene chloride	ND	1.0	"							
Naphthalene	ND	1.0	"							
n-Propylbenzene	ND	1.0	"							
Styrene	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	1.0	"							
1,1,1,2-Tetrachloroethane	ND	1.0	"							
Tetrachloroethene	ND	1.0	"							
1,2,3-Trichlorobenzene	ND	1.0	"							
1,2,4-Trichlorobenzene	ND	1.0	"							
1,1,2-Trichloroethane	ND	1.0	"							
1,1,1-Trichloroethane	ND	1.0	"							
Trichloroethene	ND	1.0	"							
Trichlorofluoromethane	ND	1.0	"							
1,2,3-Trichloropropane	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
Vinyl chloride	ND	1.0	"							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
m,p-Xylene	ND	1.0	"							
o-Xylene	ND	0.50	"							
Tert-amyl methyl ether	ND	2.0	"							
Tert-butyl alcohol	ND	10	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
Methyl tert-butyl ether	ND	1.0	"							
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	5.0	"							
Surrogate 4-Bromofluorobenzene	7.70		"	8.00		96.2	83.5-119			
Surrogate Dibromofluoromethane	6.53		"	8.00		81.6	81-136			
Surrogate Toluene-d8	8.33		"	8.00		104	88.8-117			

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Murex	Project: Cenco	Reported:
15375 Barranca Parkway, Suite K-101	Project Number: 1003-001-300	11/29/12 14:38
Irvine CA, 92861	Project Manager: Jeremy Squire	

Volatil Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2112130 - EPA 5030 GCMS

LCS (2112130-BS1)

Prepared: 11/21/12 Analyzed: 11/22/12

Chlorobenzene	21.0	1.0	ug/l	20.0		105	75-125			
1,1-Dichloroethene	17.6	1.0	"	20.0		87.8	75-125			
Trichloroethene	18.4	1.0	"	20.0		92.0	75-125			
Benzene	19.6	0.50	"	20.0		97.8	75-125			
Toluene	20.8	0.50	"	20.0		104	75-125			
Surrogate 4-Bromofluorobenzene	8.27		"	8.00		103	83.5-119			
Surrogate Dibromofluoromethane	6.53		"	8.00		81.6	81-136			
Surrogate Toluene-d8	8.66		"	8.00		108	88.8-117			

Matrix Spike (2112130-MS1)

Source: T122165-01

Prepared: 11/21/12 Analyzed: 11/22/12

Chlorobenzene	20.1	1.0	ug/l	20.0	ND	100	75-125			
1,1-Dichloroethene	17.5	1.0	"	20.0	ND	87.4	75-125			
Trichloroethene	16.7	1.0	"	20.0	ND	83.7	75-125			
Benzene	73.4	0.50	"	20.0	55.0	91.9	75-125			
Toluene	25.2	0.50	"	20.0	5.85	96.8	75-125			
Surrogate 4-Bromofluorobenzene	8.47		"	8.00		106	83.5-119			
Surrogate Dibromofluoromethane	7.10		"	8.00		88.8	81-136			
Surrogate Toluene-d8	8.32		"	8.00		104	88.8-117			

Matrix Spike Dup (2112130-MSD1)

Source: T122165-01

Prepared: 11/21/12 Analyzed: 11/22/12

Chlorobenzene	21.4	1.0	ug/l	20.0	ND	107	75-125	6.56	20	
1,1-Dichloroethene	18.1	1.0	"	20.0	ND	90.5	75-125	3.43	20	
Trichloroethene	18.2	1.0	"	20.0	ND	90.9	75-125	8.25	20	
Benzene	79.8	0.50	"	20.0	55.0	124	75-125	8.41	20	
Toluene	27.1	0.50	"	20.0	5.85	106	75-125	7.26	20	
Surrogate 4-Bromofluorobenzene	8.48		"	8.00		106	83.5-119			
Surrogate Dibromofluoromethane	7.37		"	8.00		92.1	81-136			
Surrogate Toluene-d8	8.10		"	8.00		101	88.8-117			

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Wendy Hsiao

Wendy Hsiao, Project Manager



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Murex 15375 Barranca Parkway, Suite K-101 Irvine CA, 92861	Project: Cenco Project Number: 1003-001-300 Project Manager: Jeremy Squire	Reported: 11/29/12 14:38
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Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Wendy Hsiao, Project Manager

SunStar Laboratories, Inc.
25712 Commercentre Dr
Lake Forest, CA 92630
949-297-5020

Chain of Custody Record

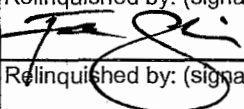
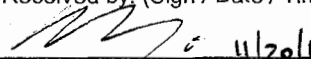
Client: MUREX ENVIRONMENTAL INC.
Address: 2640 Walnut Ave, Unit F
Phone: (714) 508-0800 Fax: (714) 508-0880
Project Manager: Jeremy Squire (714) 604-5836

Date: 11.20.2012
Project Name: CENCO
Collector: Frane Sosic
Batch #: T122165

Page: 1 OF 1

Client Project #: 1003-001-300

EDF #: _____

Sample ID	Date Sampled	Time	Sample Type	TPHg (8015 M)	VOCs (8260 B)														Total # of containers	Comments/Preservative	Laboratory ID #			
LL-712-11/19/12-01	11.19.12	8:37	GW	X	X														6		01			
LL-713-11/19/12-01	11.19.12	11:00	GW	X	X														6		02			
LL-714-11/19/12-01	11.19.12	12:47	GW	X	X														6		03			
LL-715-11/19/12-01	11.19.12	15:26	GW	X	X														6		04			
LL-W11-11/19/12-01	11.19.12	17:00	GW	X	X														6		05			
LL-TB-11/20/12			Water		X														2		06			
Relinquished by: (signature)				Date / Time				Received by: (Sign / Date / Time)				Total # of containers				32			Notes					
				F. Sasic 11.20.2012 16:45								11/20/12 1645				Chain of Custody seals						N		
Relinquished by: (signature)				Date / Time				Received by: (Sign / Date / Time)				Seals intact? Y/N/NA				N/A								
Relinquished by: (signature)				Date / Time				Received by: (Sign / Date / Time)				Received good condition/cold				Y								
												Turn around time:				Standard			2.6					

Sample disposal Instructions: Disposal @ \$2.00 each _____ Return to client _____ Pickup _____

SAMPLE RECEIVING REVIEW SHEET

BATCH # 7122165

Client Name: MUREX

Project: CENCO

Received by: DAN

Date/Time Received: 11-20-12 16:45

Delivered by : ☐ Client ☒ SunStar Courier ☐ GSO ☐ FedEx ☐ Other _____

Total number of coolers received 0

Temp criteria = 6°C > 0°C (no frozen containers)

Temperature: cooler #1 2.2 °C +/- the CF (-0.2°C) = 2.4 °C corrected temperature

cooler #2 _____ °C +/- the CF (-0.2°C) = _____ °C corrected temperature

cooler #3 _____ °C +/- the CF (-0.2°C) = _____ °C corrected temperature

Samples outside temp. but received on ice, w/in 6 hours of final sampling. ☒ Yes ☐ No* ☐ N/A

Custody Seals Intact on Cooler/Sample ☐ Yes ☐ No* ☒ N/A

Sample Containers Intact ☒ Yes ☐ No*

Sample labels match COC ID's ☒ Yes ☐ No*

Total number of containers received match COC ☒ Yes ☐ No*

Proper containers received for analyses requested on COC ☒ Yes ☐ No*

Proper preservative indicated on COC/containers for analyses requested ☒ Yes ☐ No* ☐ N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes
preservatives and within method specified holding times. ☒ Yes ☐ No*

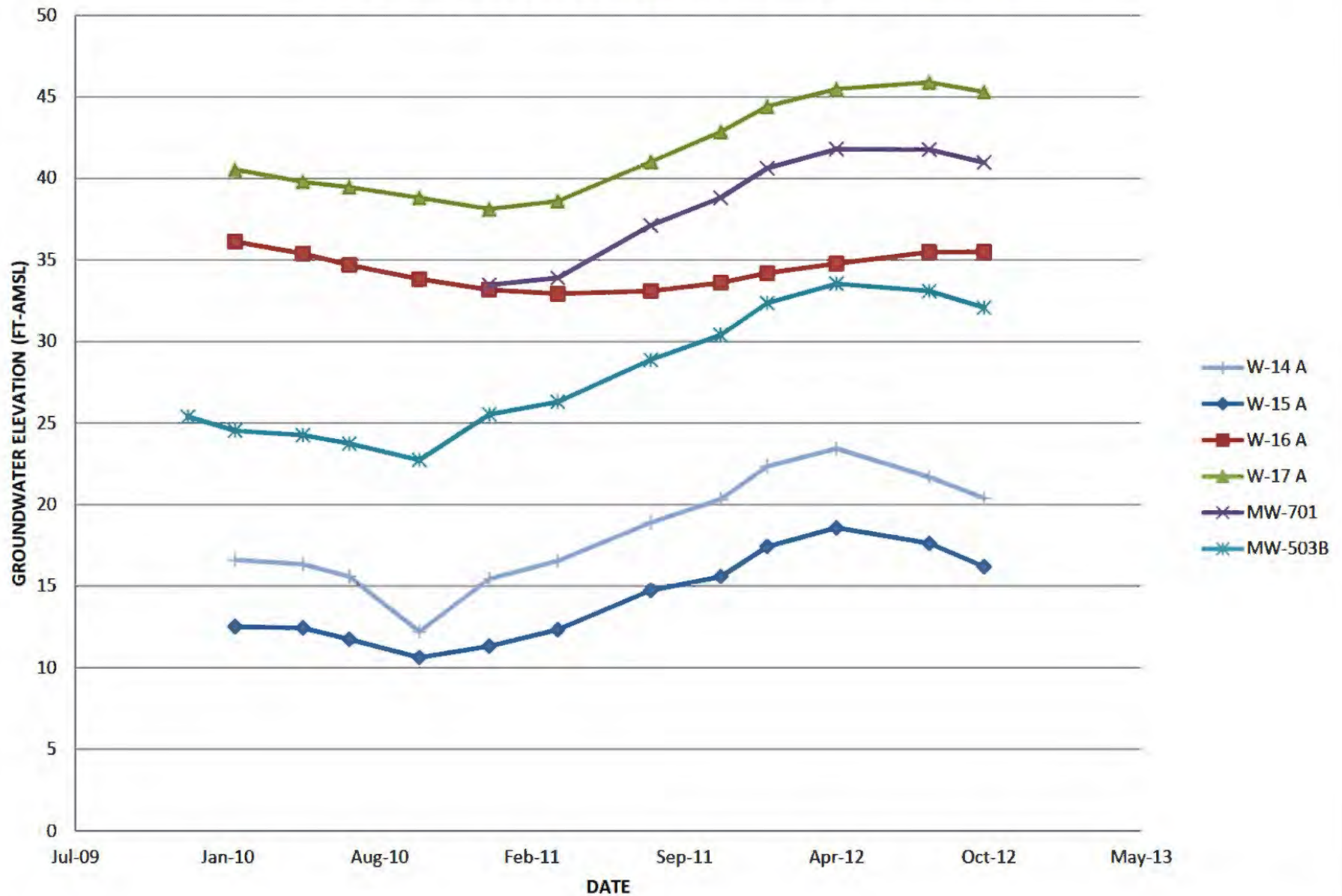
* Complete Non-Conformance Receiving Sheet if checked

Cooler/Sample Review - Initials and date BC 11-21-12

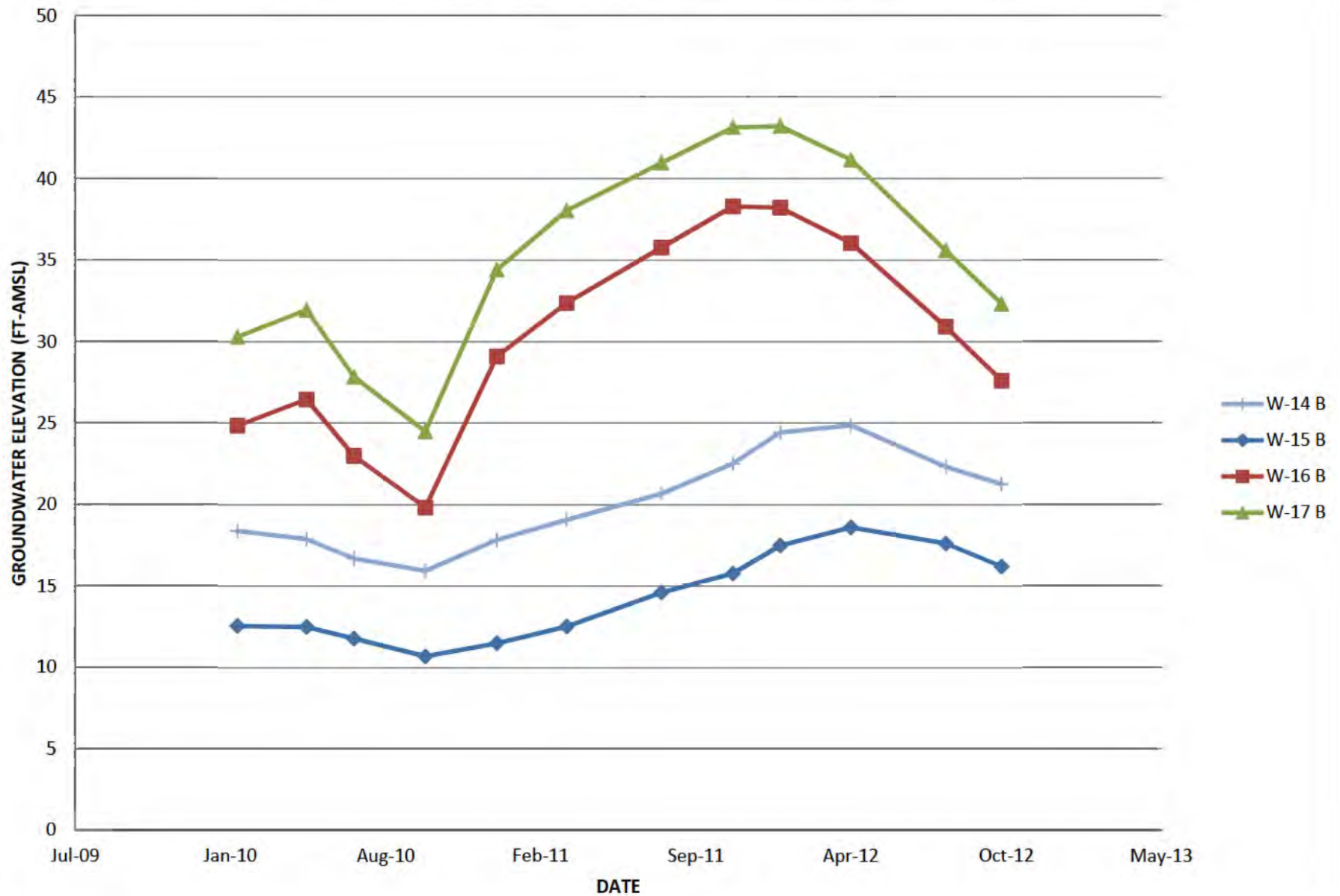
Comments:

Appendix C

A - SCREENED WELLS (APPROX 60-120 FT-BGS)



B - SCREENED WELLS (APPROX 145-170 FT-BGS)



C - SCREENED WELLS (APPROX 185-200 FT-BGS)

